SHARP SERVICE MANUAL

No. S3908CDC622//

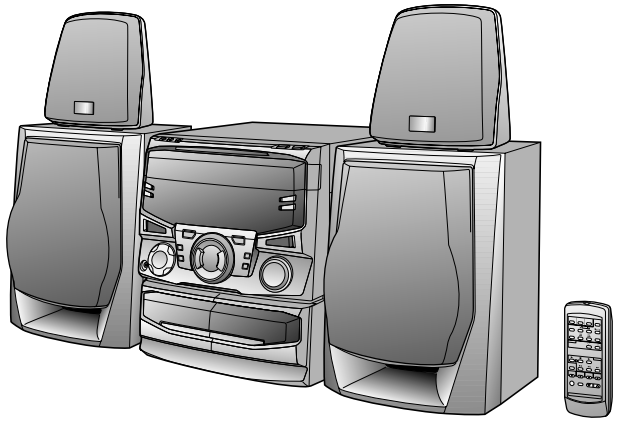

Illustration: CD-C622

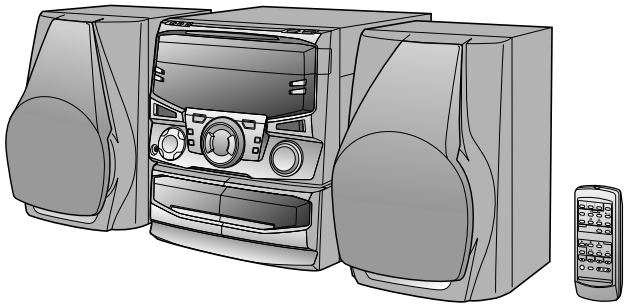

Illustration: CD-C2900

COMPACT disc DIGITAL AUDIO

CD-C622

CD-C622 mini component system consisting of CD-C622 mini component system, CP-C622 and rear (GBOXS0021AWM1) speaker system.

CD-C2900

CD-C2900 mini component system consisting of CD-C2900 mini component system and CP-C2900 speaker system.

- In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used.

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SHARP CORPORATION

This document has been published to be used for after sales service only.
The contents are subject to change without notice.

FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

IMPORTANT SERVICE NOTES (For U.S.A. Only)

BEFORE RETURNING THE AUDIO PRODUCT

(Fire & Shock Hazard)

Before returning the audio product to the user, perform the following safety checks.

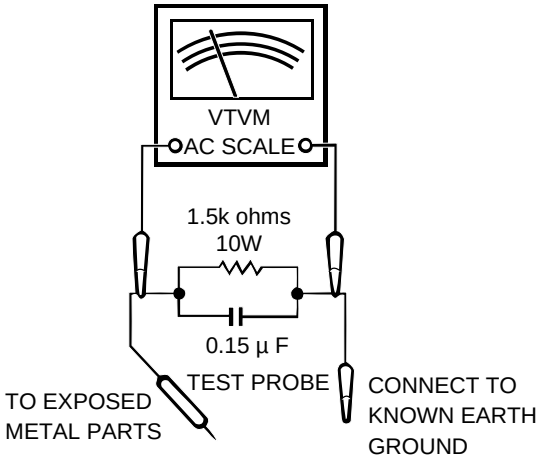
1. Inspect all lead dress to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the audio product.
2. Inspect all protective devices such as insulating materials, cabinet, terminal board, adjustment and compartment covers or shields, mechanical insulators etc.
3. To be sure that no shock hazard exists, check for leakage current in the following manner.

* Plug the AC line cord directly into a 120 volt AC outlet.

* Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15µF capacitor in series with all exposed metal cabinet parts and a known earth ground, such as conduit or electrical ground connected to earth ground.

* Use a VTVM or VOM with 1000 ohm per volt, or higher, sensitivity to measure the AC voltage drop across the resistor (See diagram).

* Connect the resistor connection to all exposed metal parts having a return path to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.



All check must be repeated with the AC line cord plug connection reversed.

Any reading of 0.3 volt RMS (this corresponds to 0.2 milliamp. AC.) or more is excessive and indicates a potential shock hazard which must be corrected before returning the audio product to the owner.

SPECIFICATIONS

CD-C622/C2900

● General

Power source:	AC 120 V, 60 Hz
Power consumption:	Stand-by; 0.3 W
(CD-C622)	Power on; 95 W
Power consumption:	Stand-by; 0.3 W
(CD-C2900)	Power on; 100 W
Dimensions:	Width; 10-5/8" (270 mm) Height; 11-13/16" (300 mm) Depth; 13-13/16" (351 mm)
Weight:	13.7 lbs. (6.2 kg)

● Amplifier section

Output power:	40 watts minimum RMS per
(CD-C622 Except for	channel into 4 ohms from 60 Hz
Canada)	to 20 kHz, 10 % total harmonic distortion
Output power:	Front speakers;
(CD-C622 For Canada)	MPO; 108 W (54 W + 54 W) (10 % T.H.D.) RMS; 60 W (30 W + 30 W) (10 % T.H.D.) Rear speakers; MPO; 36 W (18 W + 18 W) (10 % T.H.D.) RMS; 20 W (10 W + 10 W) (10 % T.H.D.)
Output power:	50 watts minimum RMS per
(CD-C2900 Except for	channel into 6 ohms from 60 Hz
Canada)	to 20 kHz, 10 % total harmonic distortion
Output power:	MPO; 180 W (90 W + 90 W)
(CD-C2900 For Canada)	(10 % T.H.D.) RMS; 100 W (50 W + 50 W) (10 % T.H.D.)
Output terminals:	Front speakers; 6 ohms
(CD-C622)	Rear Speakers; 16 ohms Headphones; 16-50 ohms (recommended; 32 ohms)
Output terminals:	Speakers; 6 ohms
(CD-C2900)	Headphones; 16-50 ohms (recommended; 32 ohms)
Input terminal:	Video/Auxiliary (audio signal); 500 mV/47 kohms

● Tuner section

Frequency range:	FM; 87.5 - 108 MHz AM; 530 - 1,720 kHz

● Cassette deck section

Frequency response:	50 - 14,000 Hz (Normal tape)
Signal/noise ratio:	55 dB (TAPE 1, playback) 50 dB (TAPE 2, recording/ playback)
Wow and flutter:	0.15 % (WRMS)

● Compact disc player section

Type:	3-disc multi-play compact disc player
Signal readout:	Non-contact, 3-beam semi-conductor laser pickup
D/A Converter:	1-bit D/A converter
Frequency response:	20 - 20,000 Hz
Dynamic range:	90 dB (1 kHz)

● Front speaker section

CP-C622

Type:	2-way type [5-1/4" (13 cm) woofer and super tweeter]
Maximum input power:	60 W
Rated input power:	30 W
Impedance:	6 ohms
Dimensions:	Width; 8-11/16" (220 mm) Height; 11-13/16" (300 mm) Depth; 8-9/16" (217 mm)
Weight:	5.7 lbs. (2.6 kg)/each

CP-C2900

Type:	3-way type [5" (13 cm) woofer, 2" (5 cm) tweeter and super tweeter]
Maximum input power:	100 W
Rated input power:	50 W
Impedance:	6 ohms
Dimensions:	Width; 7-7/8" (200 mm) Height; 11-13/16" (300 mm) Depth; 10" (256 mm)
Weight:	6.4 lbs. (2.9 kg)/each

● Rear speaker section (CD-C622 Only)

GBOXS0021AWM1

Type:	4" (10 cm) full range speaker
Maximum input power:	20 W
Rated input power:	10 W
Impedance:	16 ohms
Dimensions:	Width; 6-3/4" (170 mm) Height; 6-3/4" (170 mm) Depth; 3-1/2" (88 mm)
Weight:	0.9 lbs. (0.4 kg)/each

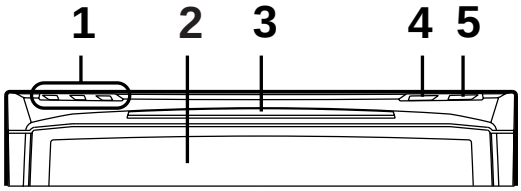
Specifications for this model are subject to change without prior notice.

NAMES OF PARTS

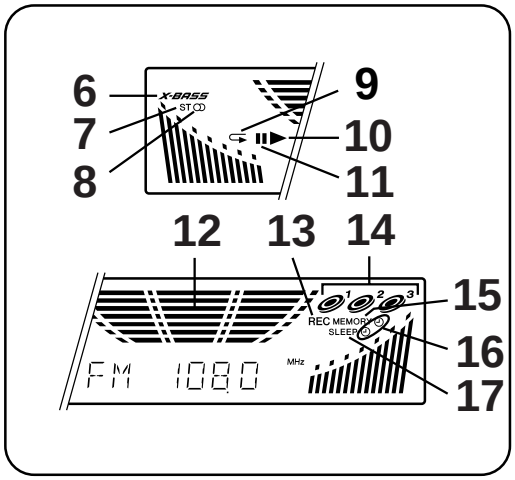
CD-C622/C2900

■ Front Panel

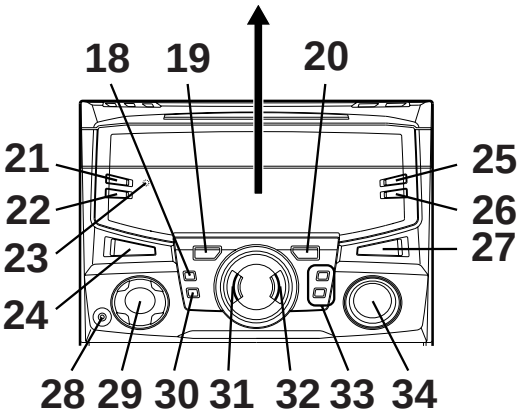
1. Disc Number Selector Buttons
2. Disc Tray
3. Multi-function Indicator
4. Disc Skip Button
5. Open/Close Button



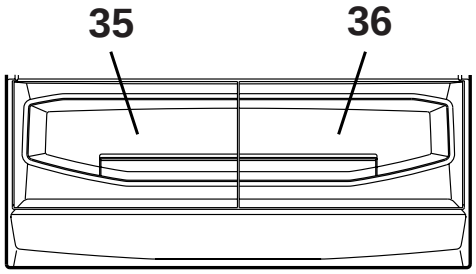
6. Extra Bass Indicator
7. FM Stereo Mode Indicator
8. FM Stereo Indicator
9. (CD) Repeat Indicator
10. (CD) Play Indicator
11. (CD) Pause Indicator
12. Spectrum Analyzer/ Volume Level Indicator
13. (TAPE 2) Racord INdicator
14. (CD) Disc Number Indicators
15. (CD/TUNER) Memory Indicator
16. Timer Indicator
17. Sleep Indicator



18. (TAPE 2) Record Pause Button
19. (CD) Track Down/Review Button
    (TUNER) Preset Down Button
    (TAPE 2) Rewind Button
20. (CD) Track Up/Cue Button
    (TUNER) Preset Up Button
    (TAPE 2) Fast Forward Button
21. Timer/Sleep Button
22. Clock Button
23. Timer Set Indicator
24. Power Button
25. Equalizer Mode Selector Button
26. Dimmer Button
27. Extra Bass/Demo Mode Button
28. Headphones Socket
29. Function Selector Buttons
30. Memory/Set Button
31. (CD/TAPE) Stop Button
32. (TAPE) Play Button
    (CD) Play/Repeat Button
33. Tuning and Time Up/Cue Buttons
34. Volume Up/Down Buttons

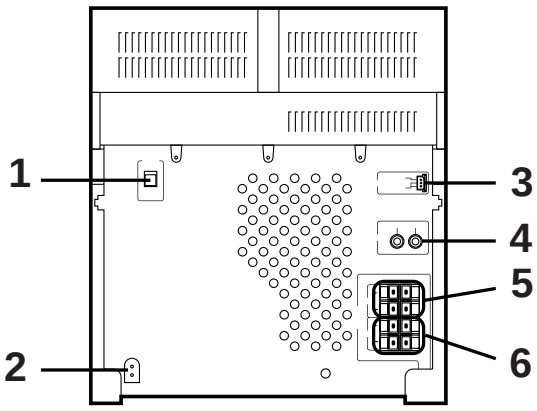


35. (TAPE 1) Cassette Compartment
36. (TAPE 2) Cassette Compartment



■ Rear Panel

1. CD Digital Output Socket
2. AC Power Input Socket
3. FM/AM Loop Aerial Socket
4. Video/Auxiliary (Audio Signal) Input Sockets
5. Front Speaker Terminals (CD-C622 Only)
6. Rear Speaker Terminals (CD-C622)
6. Speaker Terminals (CD-C2900)

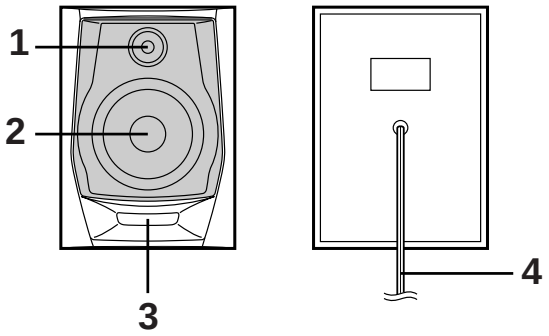


(Illistration: CD-C622)

■ **Front Speaker**

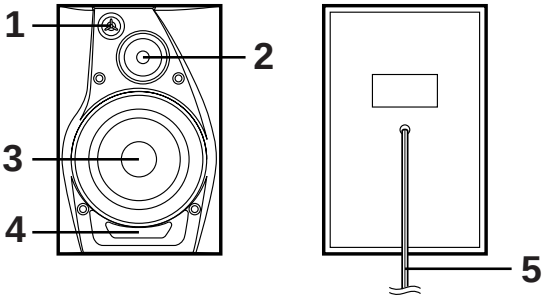
CP-C622

1. Super Tweeter
2. Woofer
3. Bass Reflex Ducts
4. Speaker Wire



CP-C2900

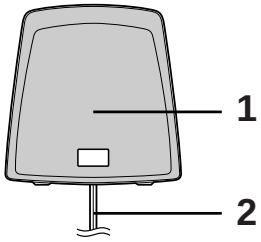
1. Super Tweeter
2. Tweeter
3. Woofer
4. Bass Reflex Ducts
5. Speaker Wire



● **Rear Speaker (CD-C622 Only)**

GBOXS0021AWM1

1. Full Range Speaker
2. Speaker Wire



CD-C622/C2900

■ **Remote Control**

1. Remote Control Transmitter LED

● **CD Control section**

2. Disc Number Select Buttons
3. Memory Button
4. Pause Button
5. Clear Button
6. Track Down/Review Button
7. Track Up/Cue Button
8. Disc Skip Button
9. Play/Repeat Button
10. Stop Button
11. Random Button

● **Tuner control section**

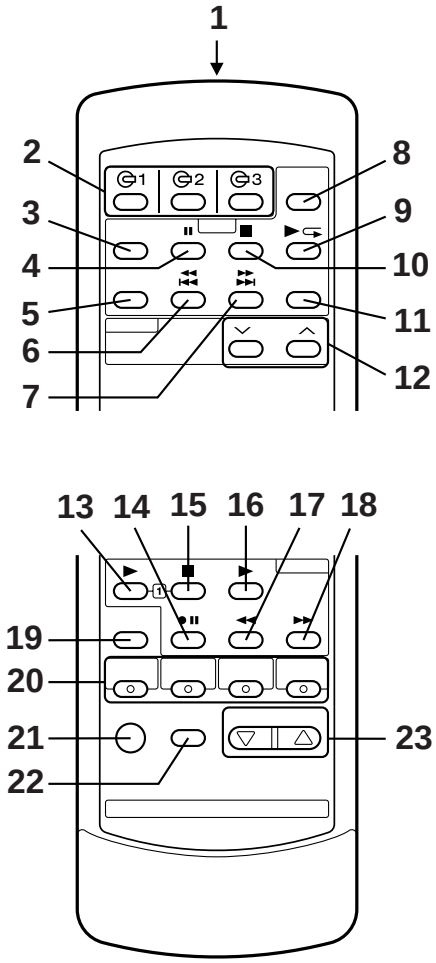
12. Preset Up/Down Buttons: ∨/∧

● **Tape control section**

13. (TAPE 1) Play Button
14. (TAPE 2) Record Pause Button
15. (TAPE 1/2) Stop Button
16. (TAPE 2) Play Button
17. (TAPE 2) Rewind Button
18. (TAPE 2) Fast Forward Button

● **Common section**

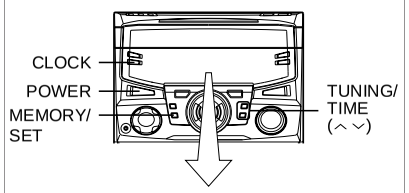
19. Equalizer Mode Selector Button
20. Function Selector Buttons
21. Power Button
22. Extra Bass Button
23. Volume Up/Down Buttons

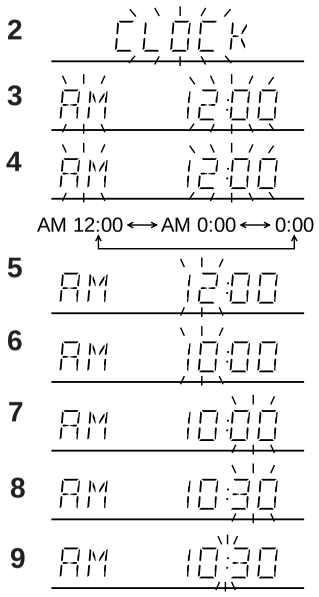


SETTING THE CLOCK

(Main unit operation)

In this example, the clock is set for the 12-hour (AM 12:00) system.





1 Press the POWER button to enter the stand-by mode.

2 Press the CLOCK button.

3 Within 5 seconds, press the MEMORY/SET button.

4 Press the TUNING/TIME (∧ or ∨) button to select the time display mode.

"AM 12:00" → The 12-hour display will appear. (AM 12:00 - PM 11:59)
"AM 0:00" → The 12-hour display will appear. (AM 0:00 - PM 11:59)
"0:00" → The 24-hour display will appear. (0:00 - 23:59)

- Note that this can only be set when the unit is first installed or it has been reset.

5 Press the MEMORY/SET button.

6 Press the TUNING/TIME (∧ or ∨) button to adjust the hour.

- Press the TUNING/TIME (∧ or ∨) button once to advance the time by 1 hour. Hold it down to advance continuously.
- When the 12-hour display is selected, "AM" will change automatically to "PM".

7 Press the MEMORY/SET button.

8 Press the TUNING/TIME (∧ or ∨) button to adjust the minutes.

- Press the TUNING/TIME (∧ or ∨) button once to advance the time by 1 minute. Hold it down to change the time in 5 minute intervals.
- The hour setting will not advance even if minutes advance from "59" to "00".

9 Press the MEMORY/SET button.

- The clock starts operating from "0" seconds. (Seconds are not displayed.)

Note:

- In the event of a power failure or when the AC power lead is disconnected, the clock display will go out.
  When the AC power supply is restored, the clock display will flash on and off to indicate the time when the power failure occurred or when the AC power lead was disconnected.
  If this happens, follow the procedure below to change the clock time.

To change the clock time:

①Press the CLOCK button.

②Within 5 seconds, press the MEMORY/SET button.

③Perform steps 6 - 9 above.

To see the time display:

Press the CLOCK button.

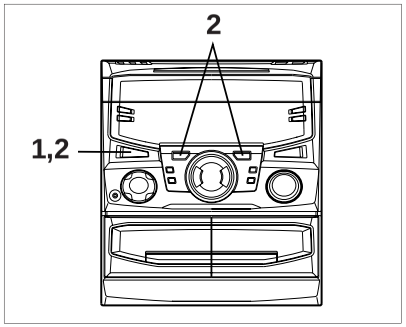
- The time display will appear for about 5 seconds.

To change the time display mode:

①Perform steps 1 - 2 in the section "RESETTING THE MICROCOMPUTER", on page 19.

②Perform steps 1 - 9 above.

RESETTING THE MICROCOMPUTER



Reset the microcomputer under the following conditions:

- To erase all of the stored memory contents (clock and timer settings, and tuner and CD presets).
- If the display is not correct.
- If the operation is not correct.

1 Press the POWER button to enter the stand-by mode.

2 Whilst pressing down the ⏮/◀◀ button and the ▶▶/⏭ button, hold down the POWER button for at least 1 second.

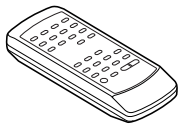
Caution:

- The operation explained above will erase all data stored in memory including clock and timer settings, and tuner and CD presets.

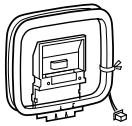
SHARP

MINI COMPONENT SYSTEM
Quick Guide/Guía rápida CD-C622

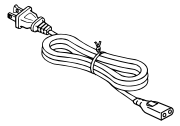
1 Check the supplied accessories / *Compruebe los accesorios suministrados*



● **Remote control x 1**
● ***Controlador remoto x 1***



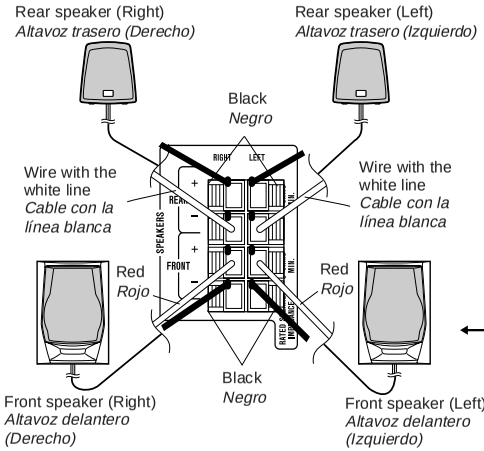
● **FM/AM loop antenna x 1**
● ***Antena de cuadro de FM/AM x 1***



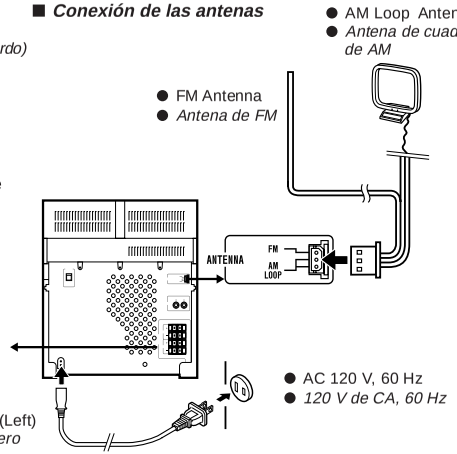
● **AC power cord x 1**
● ***Cable de alimentación de CA x 1***

2 Preparation for use / *Preparación para su uso*

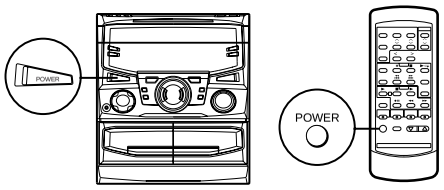
■ **Speaker connection**
■ ***Conexión de los altavoces***



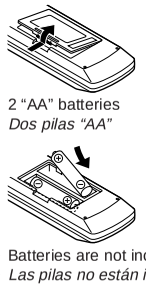
■ **Antenna connection**
■ ***Conexión de las antenas***

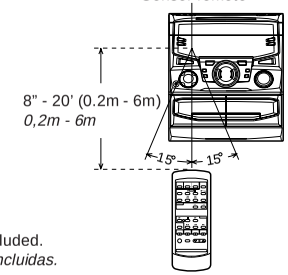


■ **Turning the power on and off**
■ ***Conexión y desconexión de la alimentación***

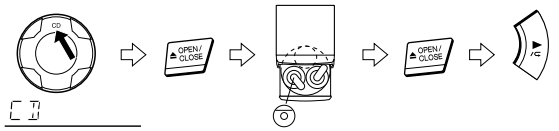


■ **Remote control**
■ ***Controlador remoto***





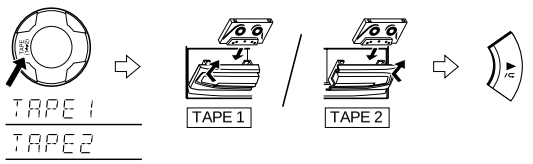
3 Listening to a CD / *Audición de discos CD*



● Label facing up
● *Etiqueta hacia arriba*

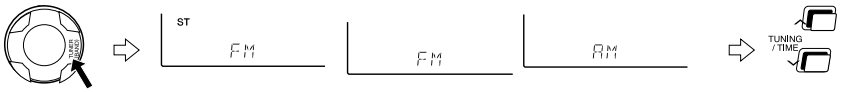
■ **To stop the playback**
■ ***Para detener la reproducción***

4 Listening to a tape / *Audición de una cinta*

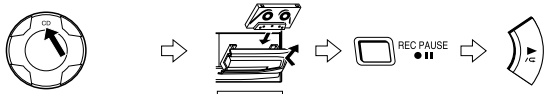


■ **To stop the playback**
■ ***Para detener la reproducción***

5 Listening to the radio / *Audición de la radio*



6 Recording from CDs / *Grabaciones de discos CD*



● Load the disc to be recorded.
● *Introduzca el disco que va a grabar.*

● CD recording starts.
● *La grabación de CD empieza.*

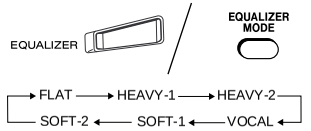
■ **To stop the playback**
■ ***Para detener la reproducción***

7 Sound control / *Control del sonldo*

■ **Volume**
■ ***Volumen***

■ **Extra bass (X-BASS)**
■ ***Graves extra (X-BASS)***

■ **Pre-programmed equalizer**
■ ***Ecualizador preprogramado***



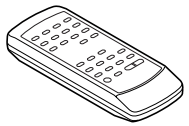
CD-C622/C2900

SHARP

MINI COMPONENT SYSTEM
Quick Guide/Guía rápida CD-C2900

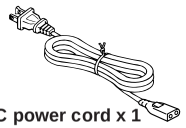
CD-C622/C2900

1 Check the supplied accessories / *Compruebe los accesorios suministrados*



● **Remote control x 1**
● ***Controlador remoto x 1***

● **FM/AM loop antenna x 1**
● ***Antena de cuadro de FM/AM x 1***

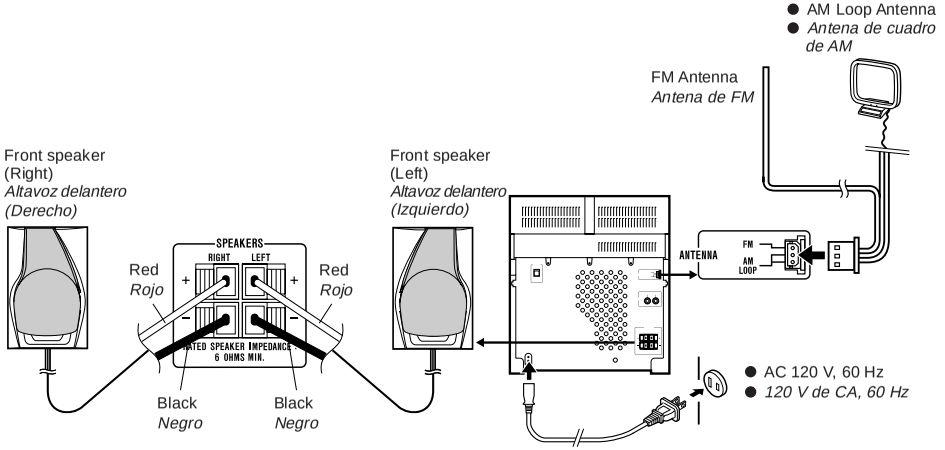


● **AC power cord x 1**
● ***Cable de alimentación de CA x 1***

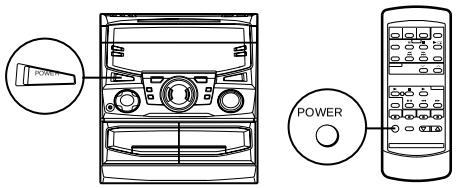
2 Preparation for use / *Preparación para su uso*

■ **Speaker connection**
■ ***Conexión de los altavoces***

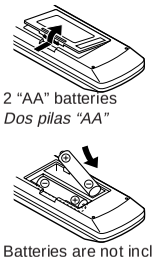
■ **Antenna connection**
■ ***Conexión de las antenas***



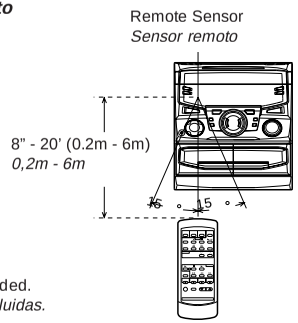
■ **Turning the power on and off**
■ ***Conexión y desconexión de la alimentación***



■ **Remote control**
■ ***Controlador remoto***

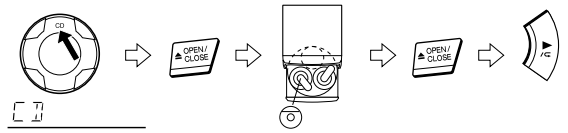


● 2 “AA” batteries
● *Dos pilas “AA”*



● Batteries are not included.
● *Las pilas no están incluidas.*

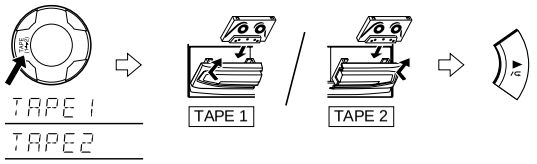
3 Listening to a CD / *Audición de discos CD*



● Label facing up
● *Etiqueta hacia arriba*

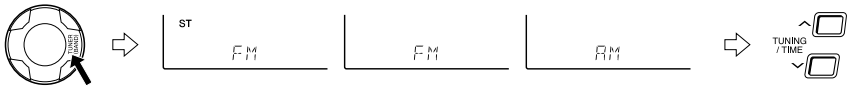
■ **To stop the playback**
■ ***Para detener la reproducción***

4 Listening to a tape / *Audición de una cinta*

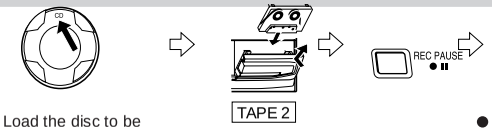


■ **To stop the playback**
■ ***Para detener la reproducción***

5 Listening to the radio / *Audición de la radio*



6 Recording from CDs / *Grabaciones de discos CD*



● Load the disc to be recorded.
● *Introduzca el disco que va a grabar.*

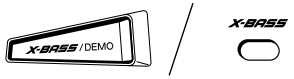
● CD recording starts.
● *La grabación de CD empieza.*

■ **To stop the playback**
■ ***Para detener la reproducción***

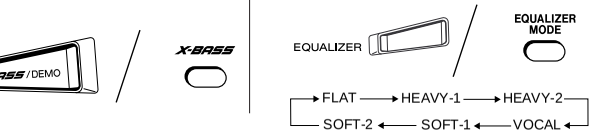
7 Sound control / *Control del sonldo*

■ **Volume**
■ ***Volumen***

■ **Extra bass (X-BASS)**
■ ***Graves extra (X-BASS)***



■ **Pre-programmed equalizer**
■ ***Ecualizador preprogramado***



DISASSEMBLY

Caution on Disassembly

Follow the below-mentioned notes when disassembling the unit and reassembling it, to keep it safe and ensure excellent performance:

1. Take cassette tape and compact disc out of the unit.
2. Be sure to remove the power supply plug from the wall outlet before starting to disassemble the unit.
3. Take off nylon bands or wire holders where they need be removed when disassembling the unit. After servicing the unit, be sure to rearrange the leads where they were before disassembling.
4. Take suffcient care on static electricity of integrated circuits and other circuits when servicing.

CD-C622/C2900

STEP	REMOVAL	PROCEDURE	FIGURE
1	Top Cabinet	1. Screw ..... (A1) x4	9-1
2	Side Panel (Left/right)	1. Screw ..... (B1) x6 2. Hook ..... (B2) x2	9-1
3	CD Player Unit/ CD Tray Cover	1. Turn on the power supply, open the disc tray, take out the CD cover, and close. (Note 1) 2. Hook ..... (C1) x3 3. Hook ..... (C2) x2 4. Socket ..... (C3) x3	9-2
4	Back Board (with Digital Output PWB)	1. Screw ..... (D1) x5	9-2
5	Main PWB	1. Screw ..... (E1) x3 2. Socket ..... (E2) x4 3. Flat Wire ..... (E3) x1 4. Tip Wire ..... (E4) x1 5. Flat Cable ..... (E5) x1	10-1
6	Front Panel	1. Screw ..... (F1) x1	10-1
7	Display PWB/ Switch PWB	1. Socket ..... (G1) x1 2. Screw ..... (G2) x12	10-2
8	Tape Mechanism	1. Open the cassette holder. 2. Screw..... (H1) x5	10-2
9	Headphones PWB	1. Screw ..... (J1) x1 2. Support Bracket ..... (J2) x1	10-2
10	Turntable	1. Screw ..... (K1) x1 2. Cover ..... (K2) x1	10-3
11	Disc Tray	1. Screw ..... (L1) x2 2. Guide ..... (L2) x2	10-3
12	CD Servo PWB (Note 2)	1. Screw ..... (M1) x1 2. Socket ..... (M2) x4	10-4
13	CD Changer Mechanism	1. Screw ..... (N1) x4	10-5
14	CD Mechanism	1. Screw ..... (P1) x1	10-5

Note 1:

How to open the changer manually. (Fig. 9-3)

1. Change, turn fully the lock lever in the arrow direction through the hole on the loading chassis bottom in this state. After that, push forward the CD player base.

Note 2:

1. After removing the connector for the optical pickup fromthe connector wrap the conductive aluminium foil around the front end of connector so as to protect the optical pickup from electrostatic damage.

(Illustration: CD-C622)

CD-C622/C2900

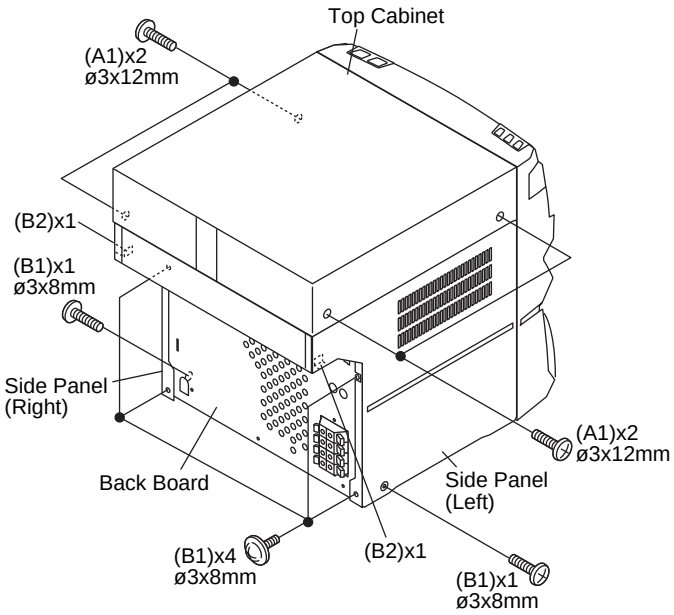


Figure 9-1

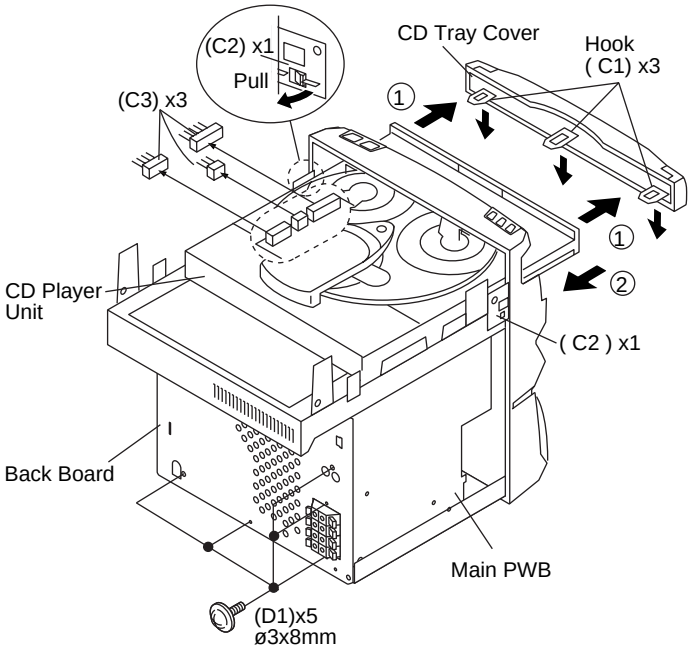


Figure 9-2

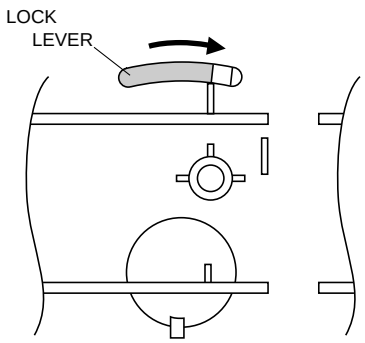


Figure 9-3

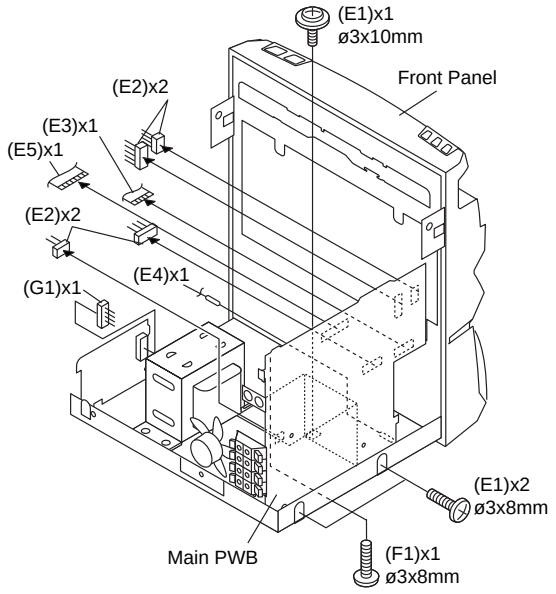


Figure 10-1

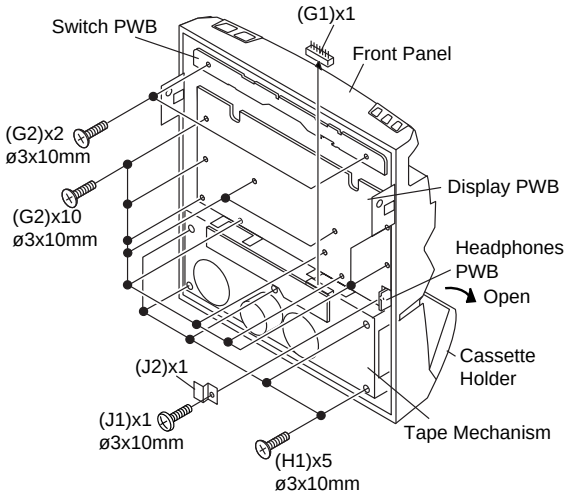


Figure 10-2

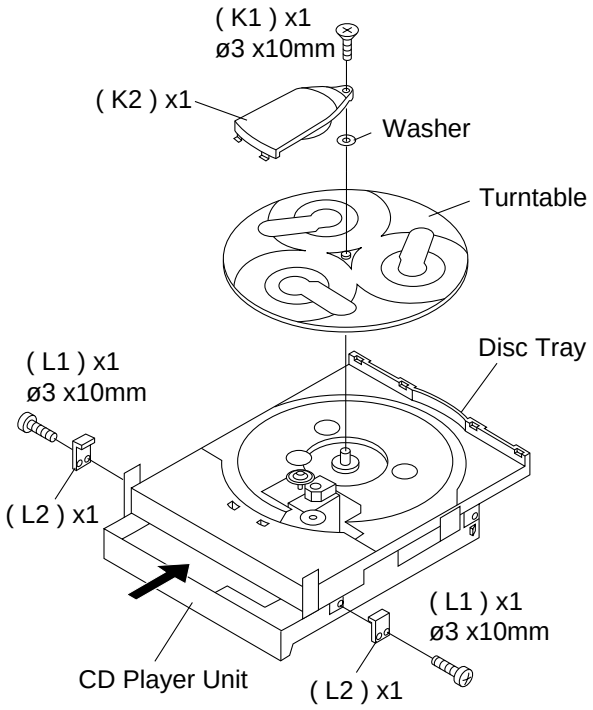


Figure 10-3

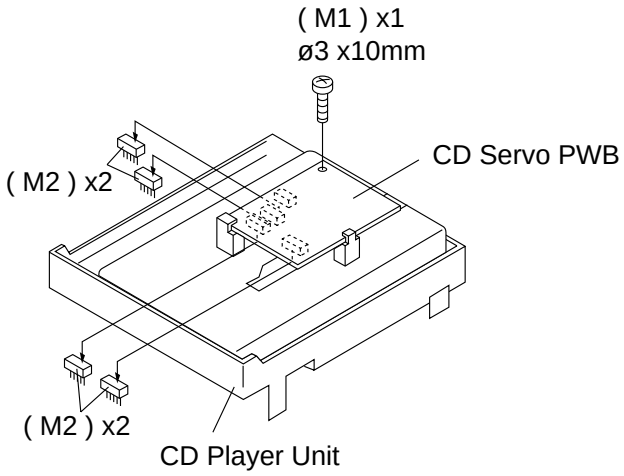
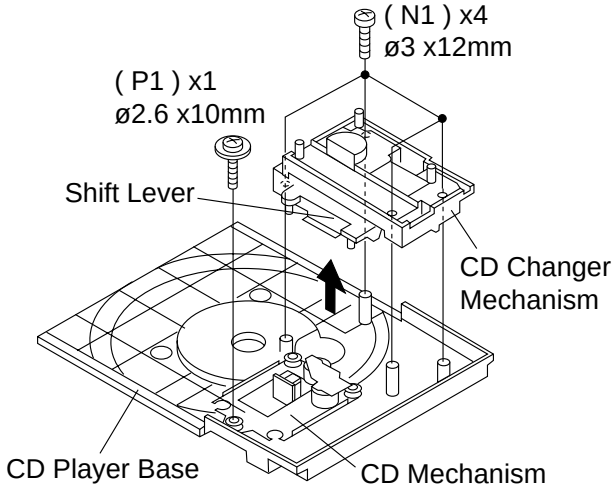


Figure 10-4



Care when installing the CD changer mechanism.
Install the CD changer mechanism on the CD player base after the shift lever has been set in the highest position.

Figure 10-5

CP-C622

STEP	REMOVAL	PROCEDURE	FIGURE
1	Front Speaker	1. Front Panel ..... (A1) x1 2. Tip ..... (A2) x2 3. Screw ..... (A3) x4	11-1

Note:
The rear speakers can be easily disassembled.
Therefore the disassembling method is not discribed.
For details refer to the disassembling drawing in the Parts Guide.

CP-C622

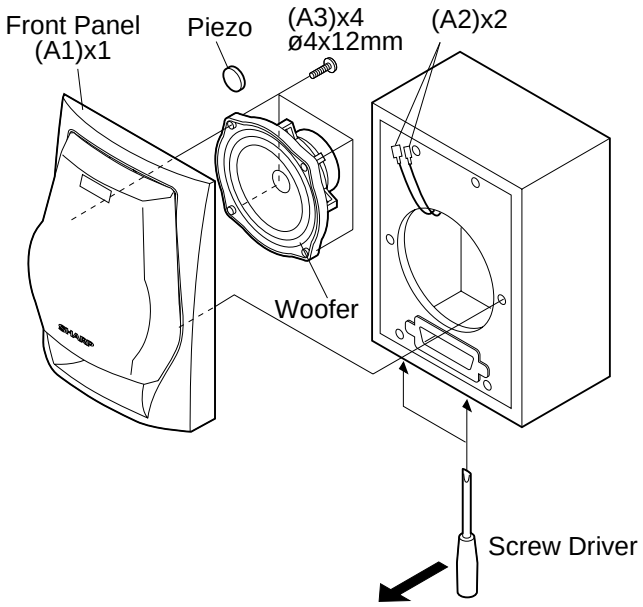


Figure 11-1

CP-C2900

STEP	REMOVAL	PROCEDURE	FIGURE
1	Front Speaker	1. Front Panel ..... (A1) x1 2. Tip ..... (A2) x2 3. Screw ..... (A3) x2 4. Screw ..... (A4) x2 5. Screw ..... (A5) x4	11-2

CP-C2900

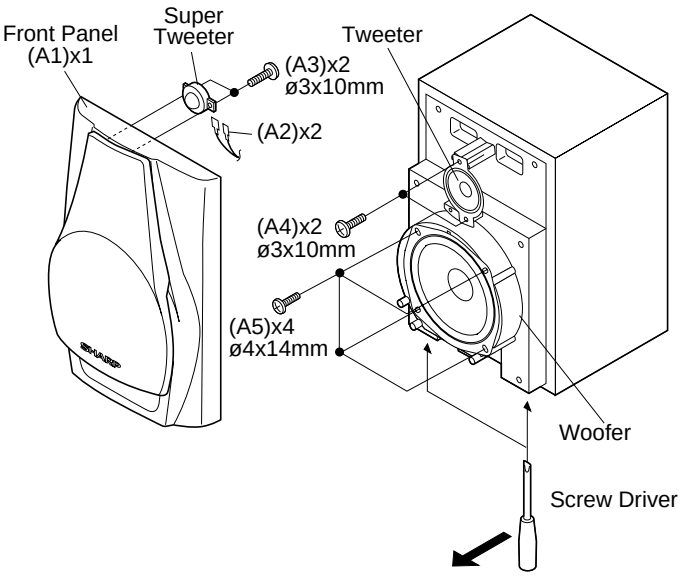


Figure 11-2

REMOVING AND REINSTALLING THE MAIN PARTS

CD MECHANISM SECTION

Perform steps 1, 2, 3, 13 and 14 of the disassembly method to remove the CD mechanism.

How to remove the loading motor (See Fig. 12-1)

1. Remove the screws (A1) x 2 pcs., to remove the loading motor.

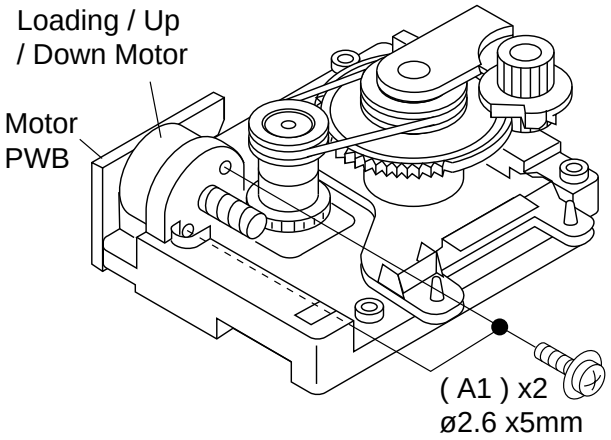


Figure 12-1

How to remove the pickup (See Fig. 12-2)

1. Remove the screws (B1) x 2 pcs., to remove the shaft (B2).
2. Remove the stop washer (B3) x 1 pc., to remove the gear (B4).
3. Remove the pickup.

Note

After removing the connector for the optical pickup fromthe connector wrap the conductive aluminium foil around the front end of connector so as to protect the optical pickup from electrostatic damage.

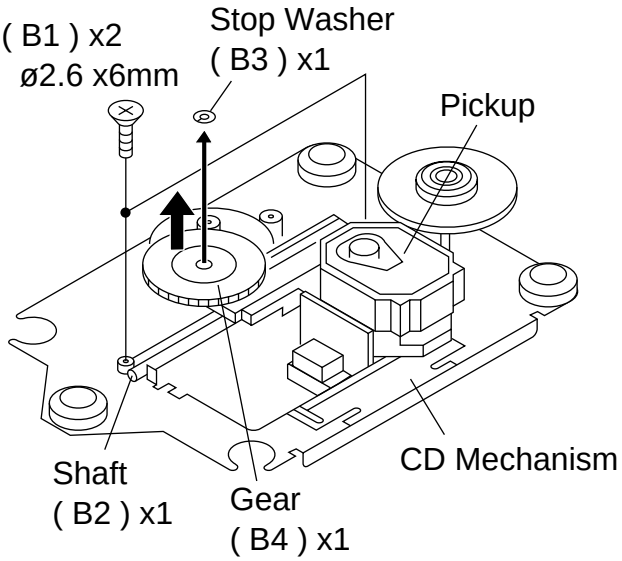


Figure 12-2

ADJUSTMENT

MECHANISM SECTION

• Driving Force Check

Torque Meter	Specified Value
Play: TW-2412	Tape 1: Over 80 g Tape 2: Over 80 g

• Torque Check

Torque Meter	Specified Value	
	Tape 1	Tape 2
Play: TW-2111	30 to 60 g. cm	30 to 60 g.cm
Fast forward: TW-2231	—	60 to 120 g.cm
Rewind: TW-2231	—	60 to 120 g.cm

• Tape Speed

	Test Tape	Adjusting Point	Specified Value	Instrument Connection
Normal speed	MTT-111	Volume in motor. (MM1)	3,000 ± 30 Hz	Speaker terminal (Load resistance: 8 ohms)

TUNER SECTION

fL: Low-range frequency
fH: High-renge frequency

• AM IF/RF

Signal generator: 400 Hz, 30%, AM modulated

Test Stage	Frequency	Frequency Display	Setting/ Adjusting Parts	Instrument Connection
IF	450 kHz	1,720 kHz	T351	*1
Band Coverage	—	530 kHz	(fL): T333 1.1 ± 0.1 V	*2
Tracking	990 kHz	990 kHz	(fL): T331	*1

*1. Input: Antenna, Output: TP302
*2. Input: Antenna, Output: TP301

• FM RF

Signal generator: 1 kHz, 75 kHz dev., FM modulated

Test Stage	Frequency	Frequency Display	Serring/ Adjusting Point	Instrument Connection
Band Coverage	—	87.50 MHz	L303(fL): 3.4 V ± 50 mV	*1
RF	98.00 MHz (10-30 dB)	98.00 MHz	L302	*2

*1. Input: Antenna, Output: TP301
*2. Input: Antenna, Output: Speaker terminal

• Detection

Signal generator: 10.7 MHz, FM sweep generator

Test Stage	Frequency	Frequency Display	Adjusting Parts	Instrument Connection
Detection	10.7 MHz	98.00 MHz	T352	Input: Pin 1 of IC303 Output: TP302
IF	10.7 MHz	98.00 MHz	T301(Turn the core of transformer T352 fully counter-clookwise.)	Input: Pin 1 of IC301 Output: TP302

• VCO Frequency

Frequency	Frequency Display	Adjusting Parts	Instrument Connection
98.00 MHz (60 dB)	98.00 MHz	VR351*	Pin 13, Pin 21 and ground of IC303

* Adjust for 76 kHz ± 200 Hz.

Notes:

After preparing the test circuit shown in Fig 13-2, connect the Pin 13 , Pin 21 and ground of the IC303 with test circuit, and measure the Value.
At this time, apply a standard unmodulated signal input and adjust the VCO.

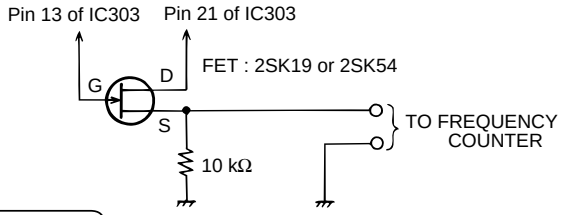


Figure 13-2

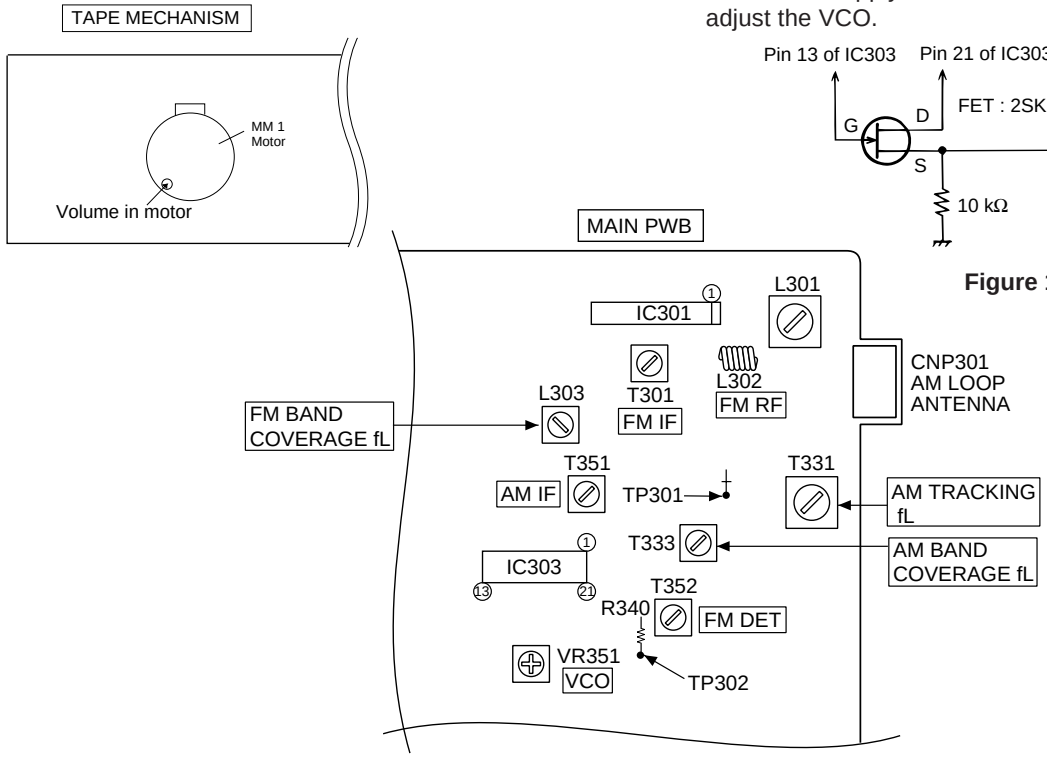


Figure 13-1 ADJUSTMENT POINTS

TEST MODE

• Setting the test mode

Any one of test mode can be set by pressing several keys as follows.
<REC. PAUSE> + <DISC. SKIP> + <POWER> TEST: CD operation test

• TEST mode

Function — CD test mode

Setting of TEST mode
Indication of CD TST mode (Fig. 14-1)
OPEN/CLOSE operation is manual operation.
The pickup can be moved by using the (▶▶) or (◀◀) key.
IL is not performed.

<MEMORY> LASER ON — <MEMORY> Tracking on the spot. SERVO OFF PLAY — <MEMORY> Tracking on the spot. SERVO ON PLAY — <STOP> STOP

<PLAY> key input — TOC. IL is performed, and the ordinary PLAY is performed. If the following key is pressed during PLAY, it is possible to specify directly any Track No.
<Disc Number 1> key: Track 4
<Disc Number 2> key: Track 9
<Disc Number 3> key: Track 15
— Press <STOP> key. — Stop

Note:

Only in STOP state it is possible to slide the pickup with the (▶▶) or (◀◀) key.

VOL. --- Last memory
BAL. --- CENTER
R.GEQ. --- FLAT
X-BAS --- OFF

Canceling method - POWER OFF

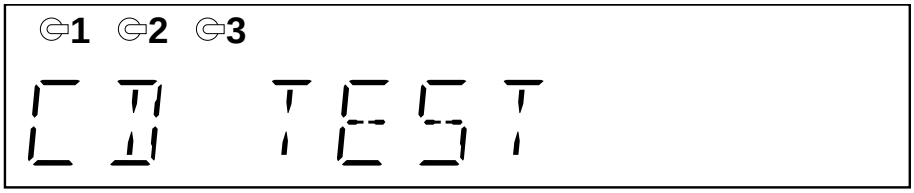


Figure 14-1

CD SECTION

Since this CD system incorporates the following automatic adjustment function, when the pickup is replaced, it is not necessary to readjust it.
Since this CD unit does not need adjustment, the combination of PWB and laser pickup unit is not restricted.

• Automatic adjustment item

1. Focus offset (Fig. 14-2)
2. Tracking offset (Fig. 14-3)
3. E/F balance (tracking error balance) (Fig. 14-4)
4. RF level AGC function (HF level: constant)
5. RF level automatic follow-up of the tracking gain

This automatic adjustment is performed each time a disc is changed. Therefore, each disc is played back using the optimal settings.

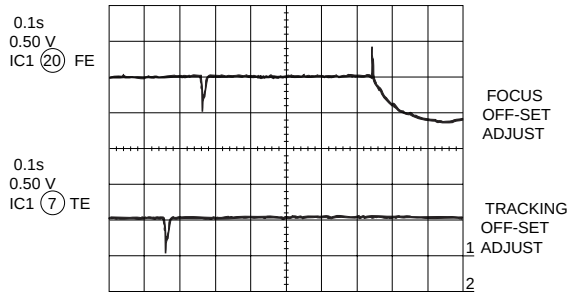


Figure 14-2

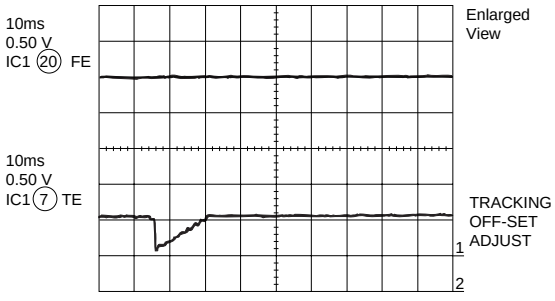


Figure 14-3

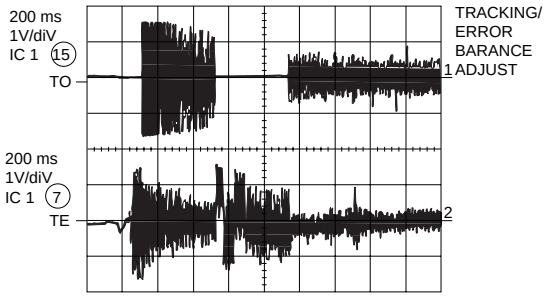


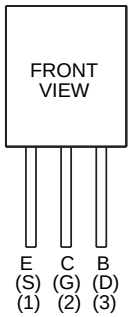
Figure 14-4

NOTES ON SCHEMATIC DIAGRAM

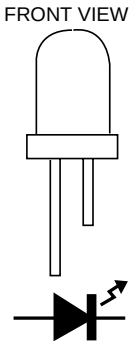
- Resistor:
  To differentiate the units of resistors, such symbol as K and M are used: the symbol K means 1000 ohm and the symbol M means 1000 kohm and the resistor without any symbol is ohm-type resistor. Besides, the one with “Fusible” is a fuse type.
- Capacitor:
  To indicate the unit of capacitor, a symbol P is used: this symbol P means micro-micro-farad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression “capacitance/withstand voltage” is used.
  (CH), (TH), (RH), (UJ): Temperature compensation
  (ML): Mylar type
  (P.P.): Polypropylene type
- Schematic diagram and Wiring Side of P.W.Board for this model are subject to change for improvement without prior notice.
- The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.
  1. In the tuner section,
     ( ) indicates AM
     < > indicates FM stereo
  2. In the main section, a tape is being played back.
  3. In the deck section, a tape is being played back.
     ( ) indicates the record state.
  4. In the power section, a tape is being played back.
  5. In the CD section, the CD is stopped.
- Parts marked with “ ⚠ ” (⊏ ═ ═ ═ ⊐) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

REF. NO	DESCRIPTION	POSITION
SW1	OPEN/CLOSE	ON—OFF
SW2	MECHA UP	ON—OFF
SW3	DISC NUMBER	ON—OFF
SW4	PICKUP IN	ON—OFF
SW701	POWER	ON—OFF
SW703	CLOCK	ON—OFF
SW704	TIMER/SLEEP	ON—OFF
SW705	DISC 1	ON—OFF
SW706	DISC 2	ON—OFF
SW707	DISC 3	ON—OFF
SW708	DISC SKIP	ON—OFF
SW709	OPEN/CLOSE	ON—OFF
SW710	REV	ON—OFF
SW711	REC PAUSE	ON—OFF
SW712	MEMORY/SET	ON—OFF
SW713	STOP	ON—OFF

REF. NO	DESCRIPTION	POSITION
SW714	TUNER/BAND	ON—OFF
SW715	VIDEO	ON—OFF
SW716	TAPE	ON—OFF
SW717	CD	ON—OFF
SW722	FF	ON—OFF
SW723	TUNING UP	ON—OFF
SW724	TUNING DOWN	ON—OFF
SW725	PLAY	ON—OFF
SW726	VOLUME DOWN	ON—OFF
SW727	VOLUME UP	ON—OFF
SW728	X-BASS/DEMO	ON—OFF
SW729	EQUALIZER	ON—OFF
SW730	DIMMER	ON—OFF
SWM 3	FOOL PROOF	ON—OFF
SWM 4	F.A.S.	ON—OFF
SWM 5	CAM	ON—OFF



KTA1266 GR
2SA1015 GR
2SA1318
2SC3331
2SC535 C
KRA102 M
KRA109 M
KRC102 M
KRC104 M
KRC107 M
KTA1271 Y
KTA1273 Y
KTA1274 Y
KTD2058 Y
KTC3200 GR
KTC3203 Y



L1154GT4
SLI342YCB
SLI342DCB
SLI342UCB
SLI342YCJ

Figure 15 TYPES OF TRANSISTOR AND LED

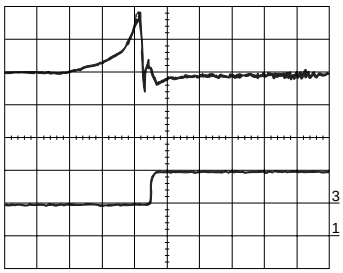
WAVEFORMS OF CD CIRCUIT

STOP → PLAY

FOCUS — SERCH

1 5ms 0.50 V IC1 (20) F.E

2 5ms 5.0 V IC1 (54) DRF

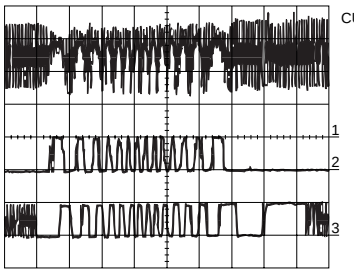


3 0.5ms 1.00 V HF

4 0.5ms 5.0 V HFL

5 0.5ms 5.0 V TES

CUE

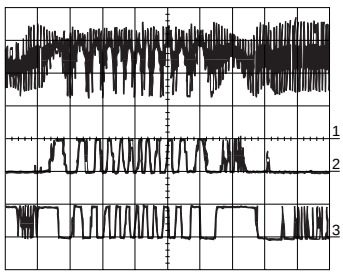


3 0.5ms 1.00 V HF

4 0.5ms 5.0 V HFL

5 0.5ms 5.0 V TES

REVIEW



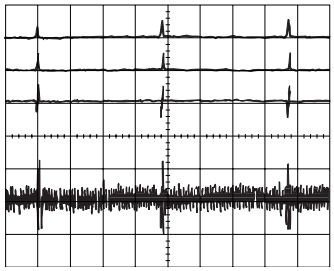
6 50ms 10.0 V JP+

7 50ms 10.0 V JP-

8 50ms 0.50 V JP

9 50ms 1.00 V TE

CUE

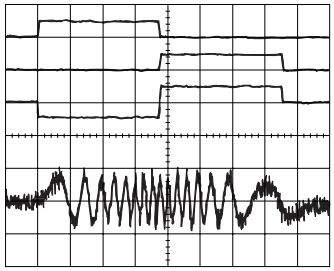


6 0.5ms 10.0 V JP+

7 0.5ms 10.0 V JP-

8 0.5ms 0.50 V JP

9 0.5ms 1.00 V TE



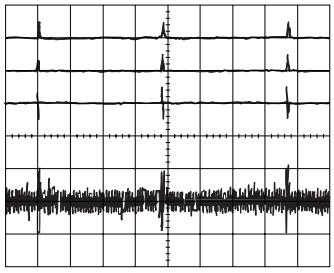
6 50ms 10.0 V JP+

7 50ms 10.0 V JP-

8 50ms 0.50 V JP

9 50ms 1.00 V TE

REVIEW

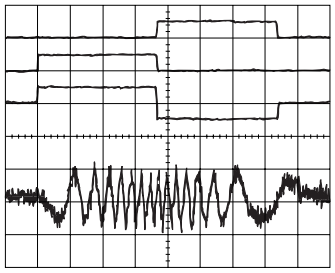


6 0.5ms 10.0 V JP+

7 0.5ms 10.0 V JP-

8 0.5ms 0.50 V JP

9 0.5ms 1.00 V TE



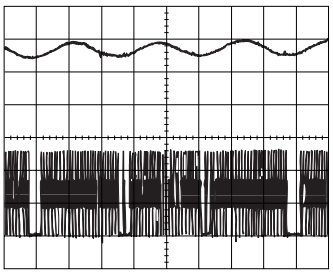
PLAY

NORMAL DISC

TN0=01

10 20ms 1.00 V SPO

11 20ms 2.00 V CLV+



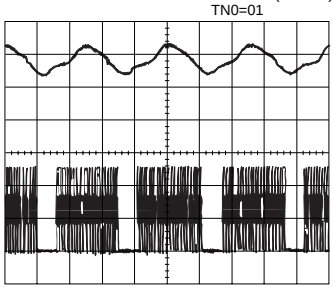
PLAY

TCD-712 (140mm)

TN0=01

10 50ms 1.00 V SPO

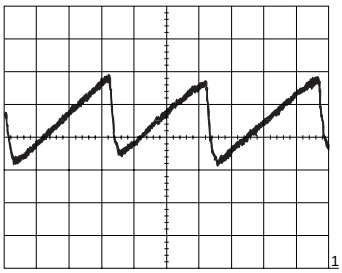
11 50ms 2.00 V CLV+



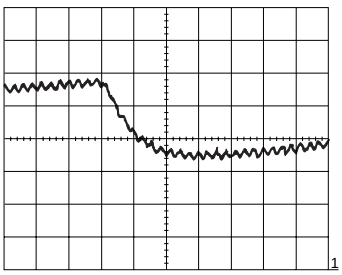
PLAY

TCD-712

12 5s 100mV SLD



12 0.5s 100mV SLD



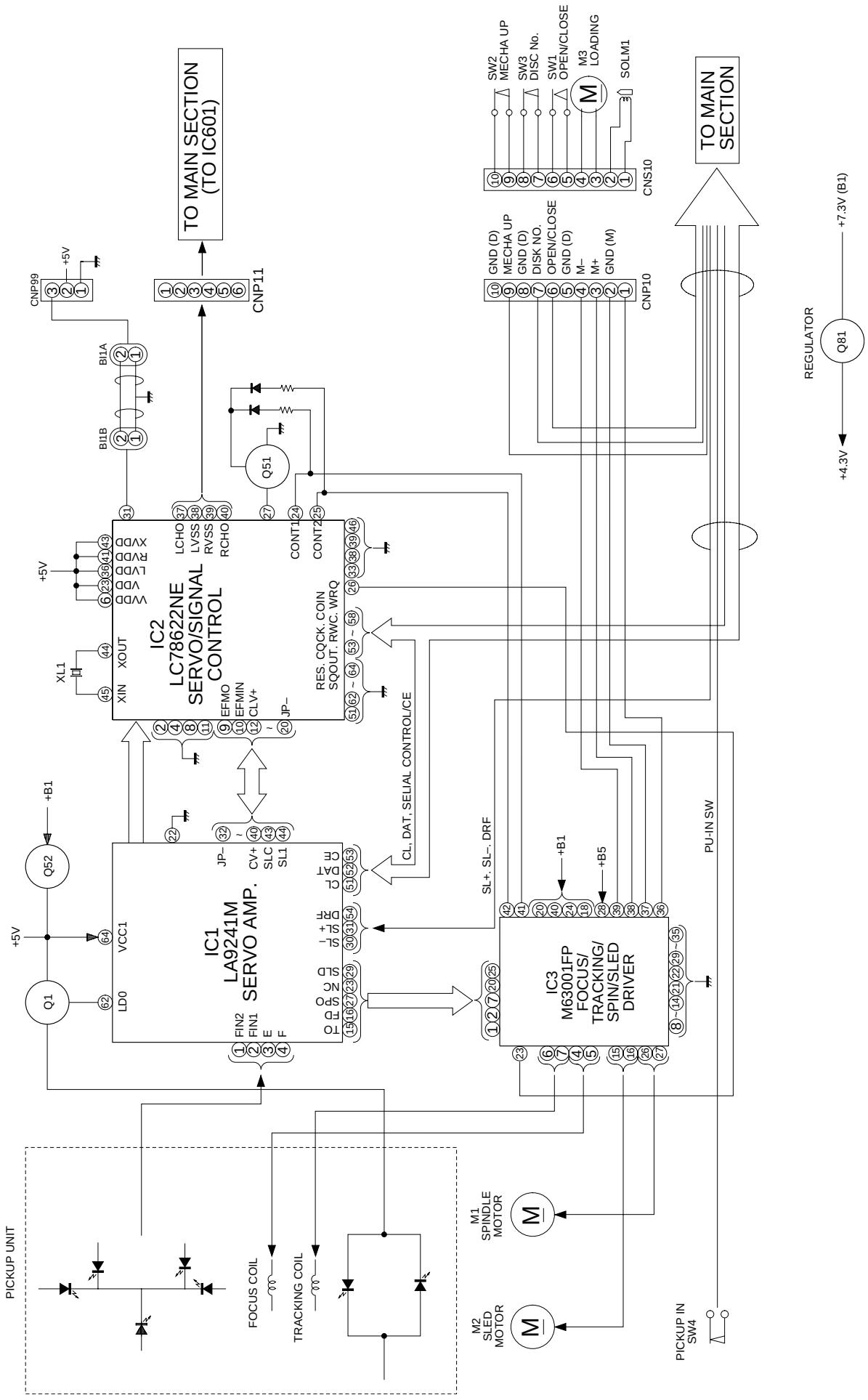


Figure 17 BLOCK DIAGRAM (1/3)

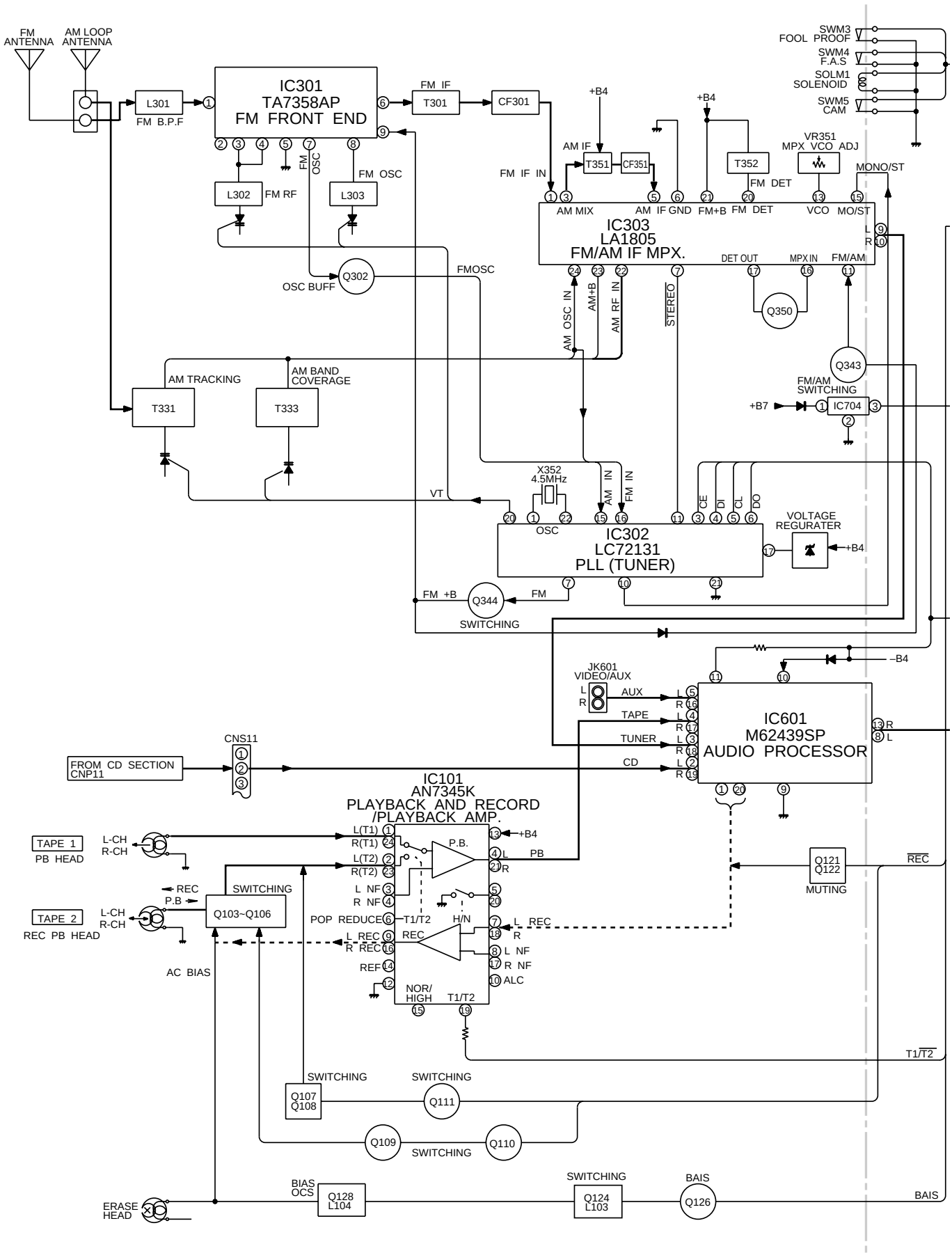


Figure 18 BLOCK DIAGRAM (2/3)

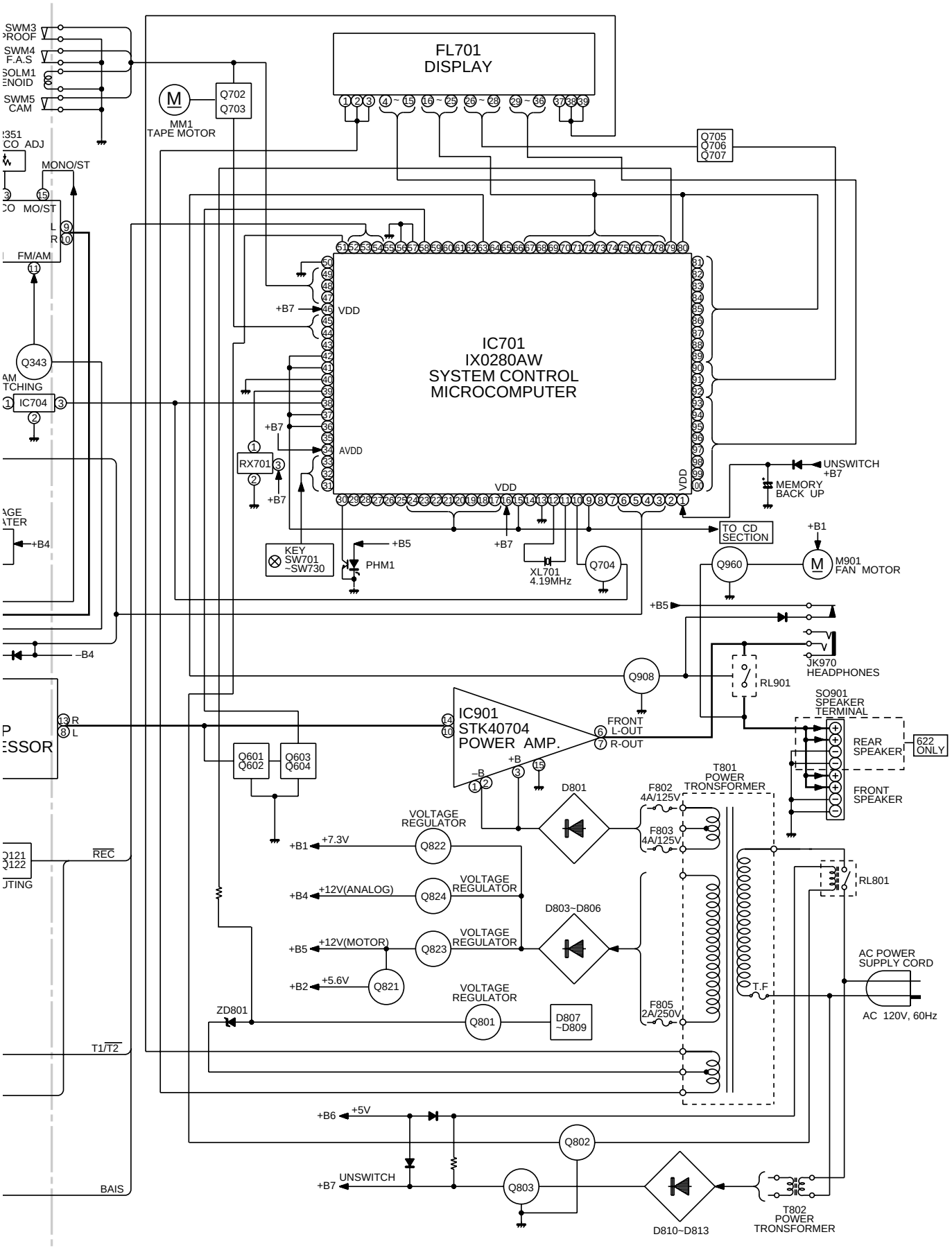
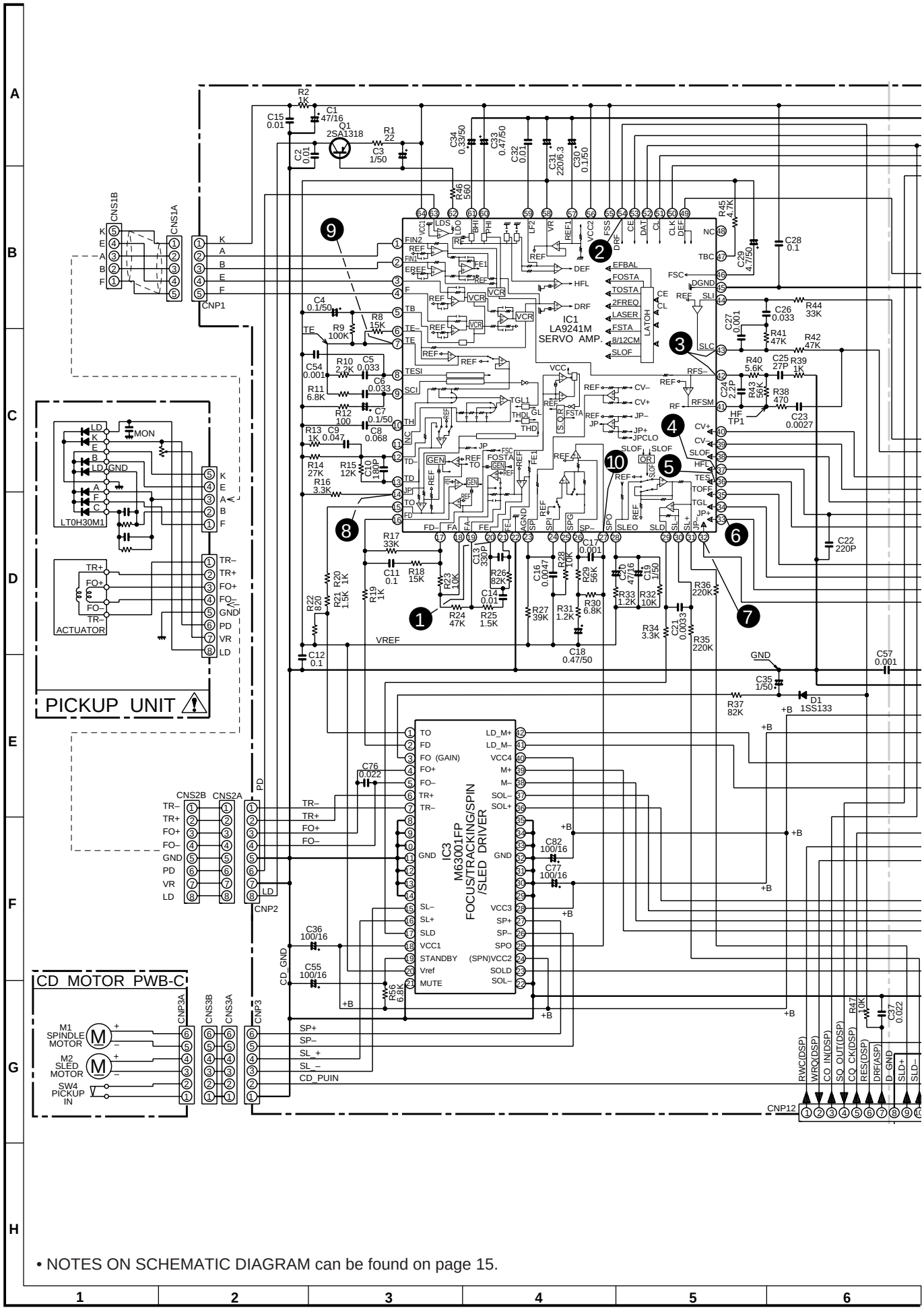
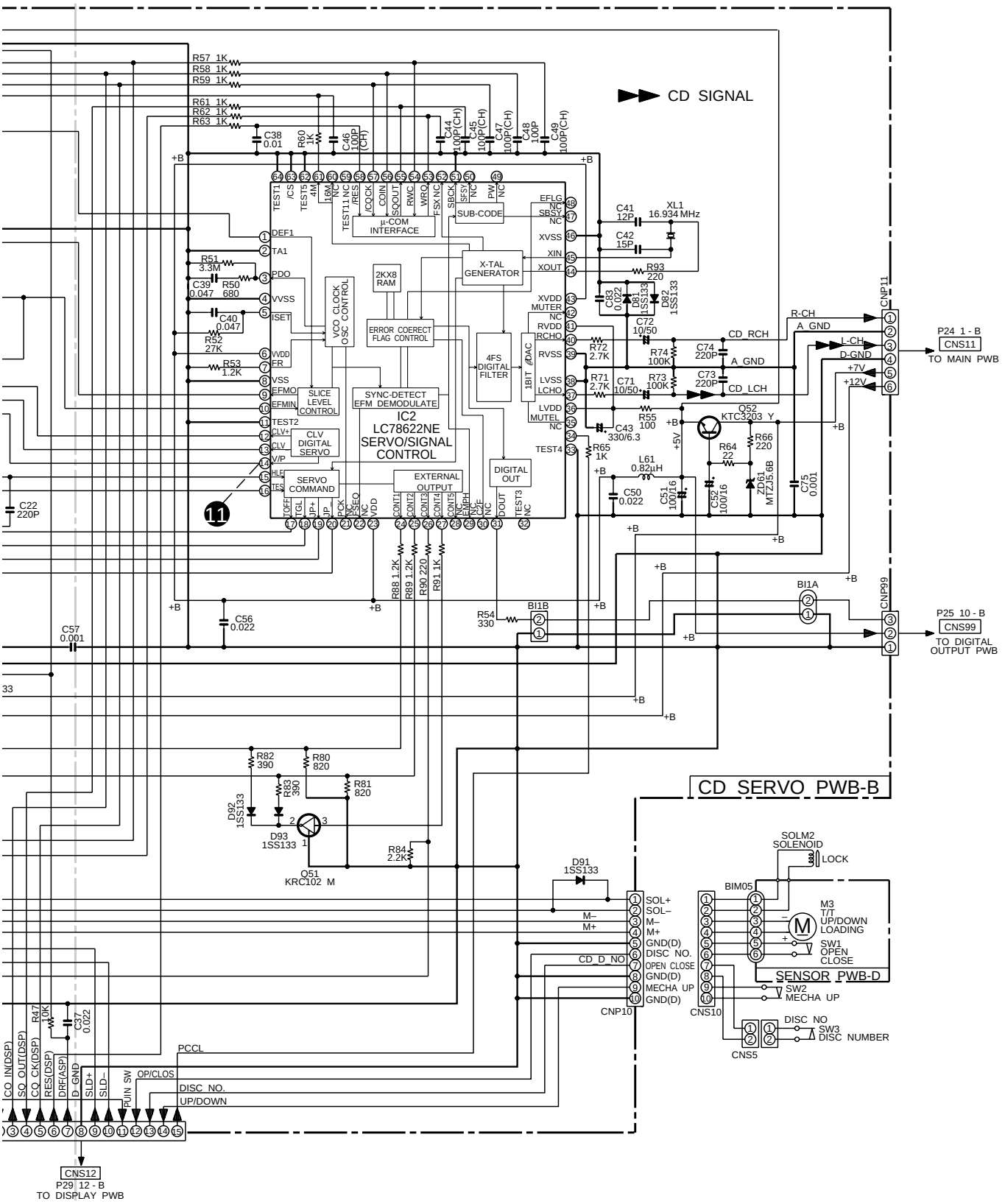


Figure 19 BLOCK DIAGRAM (3/3)



• NOTES ON SCHEMATIC DIAGRAM can be found on page 15.

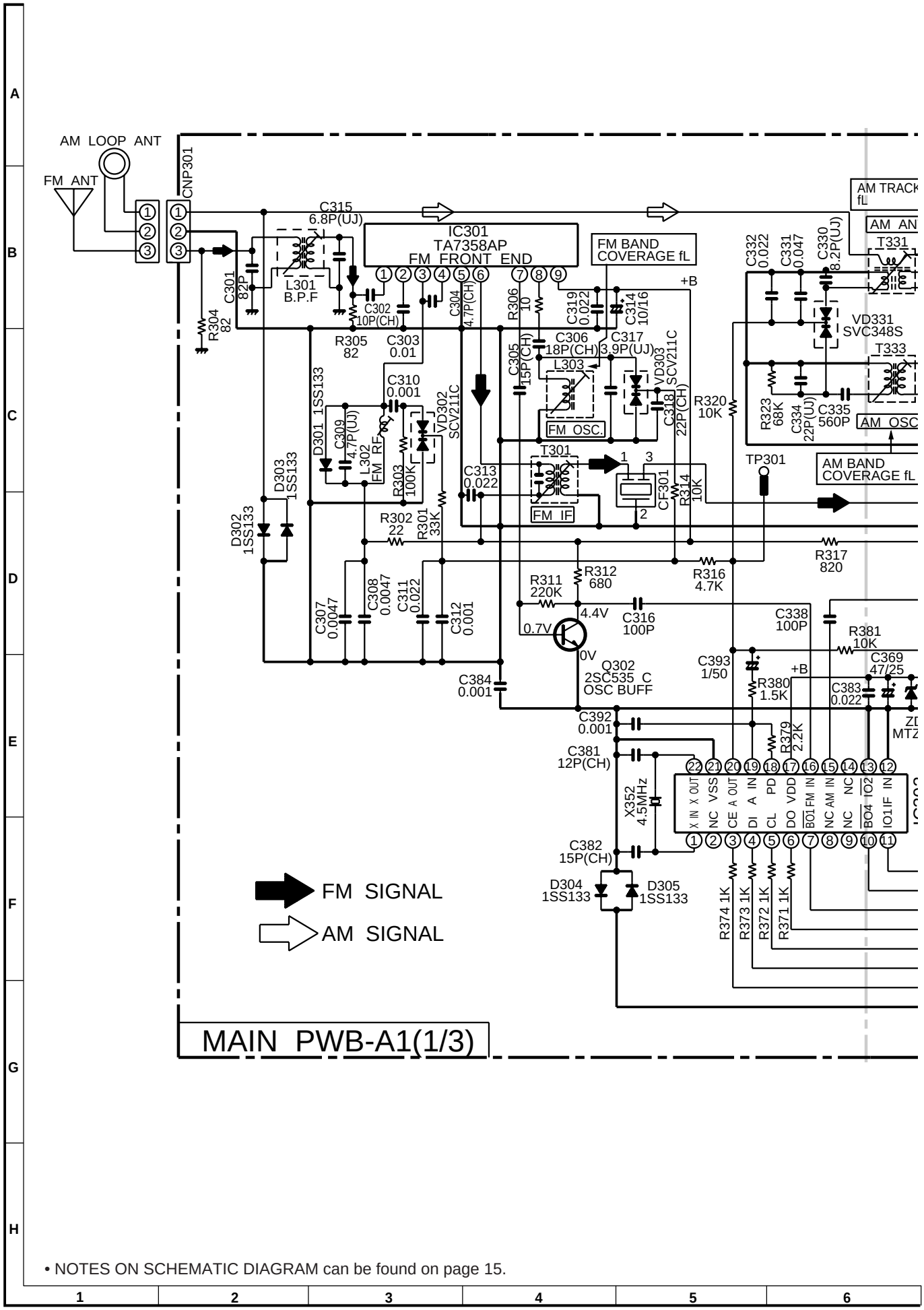
Figure 20 SCHEMATIC DIAGRAM (1/10)



• The numbers ❶ to ⓬ are waveform numbers shown in page 16.

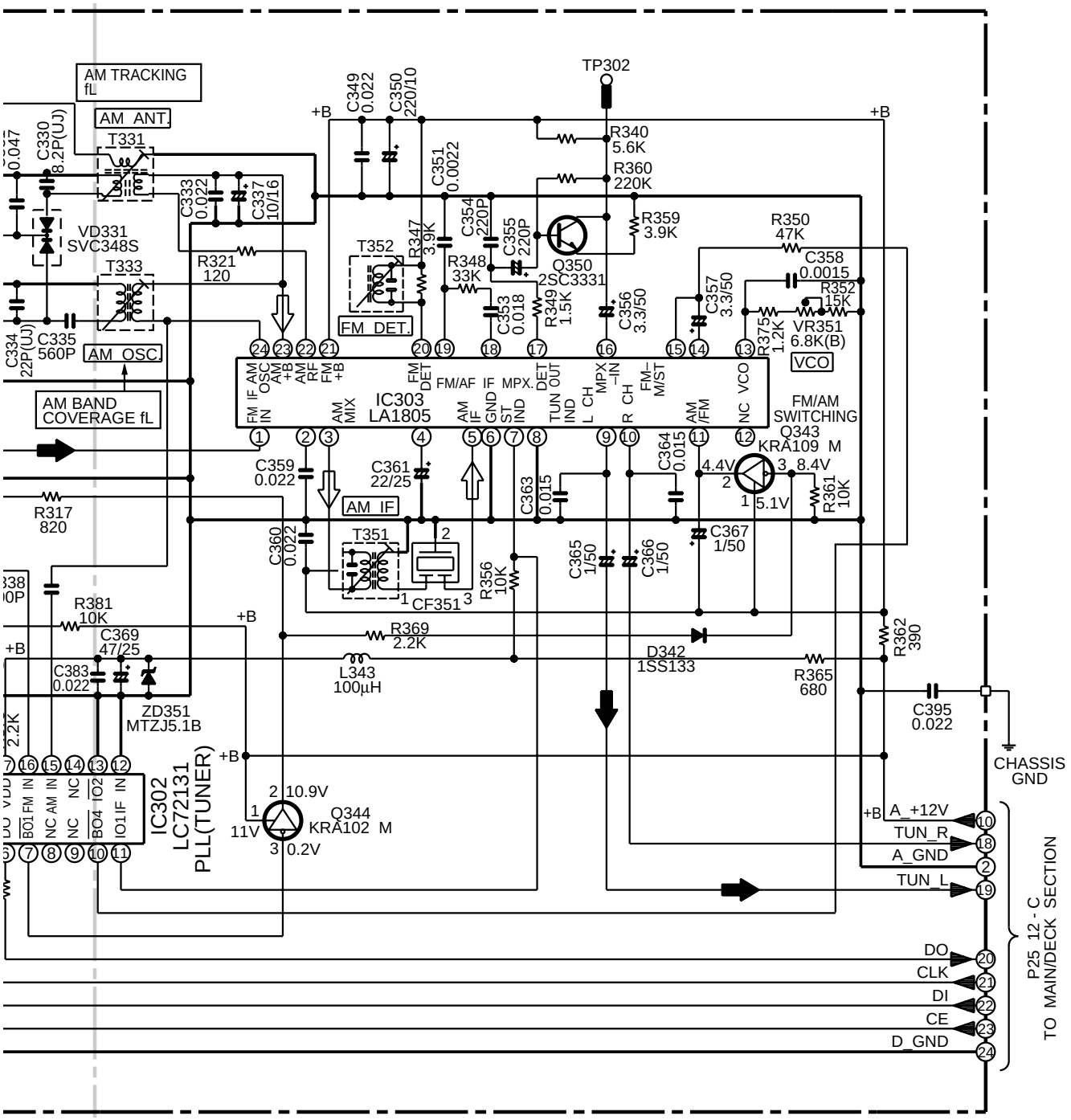
7	8	9	10	11	12

Figure 21 SCHEMATIC DIAGRAM (2/10)



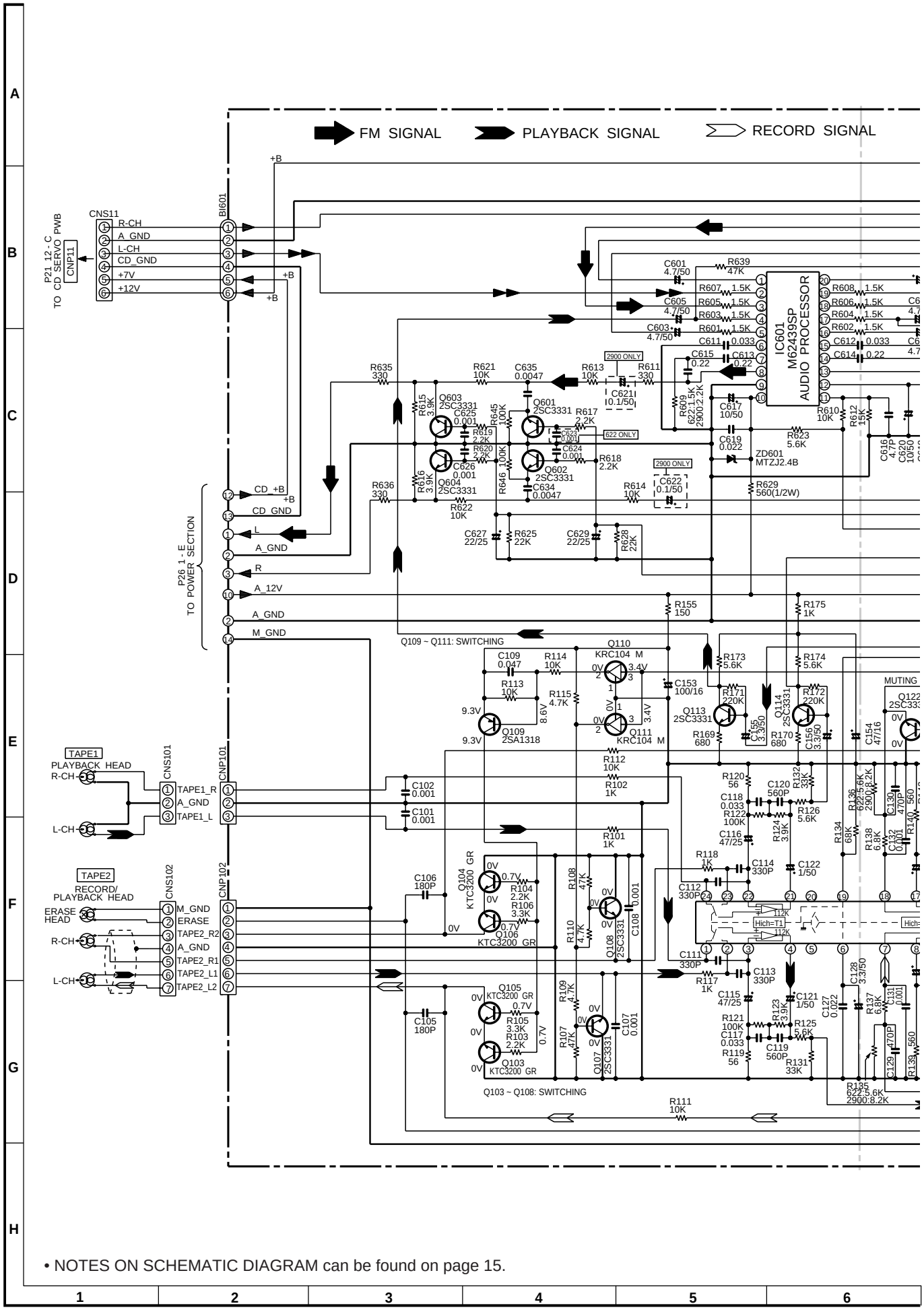
• NOTES ON SCHEMATIC DIAGRAM can be found on page 15.

Figure 22 SCHEMATIC DIAGRAM (3/10)



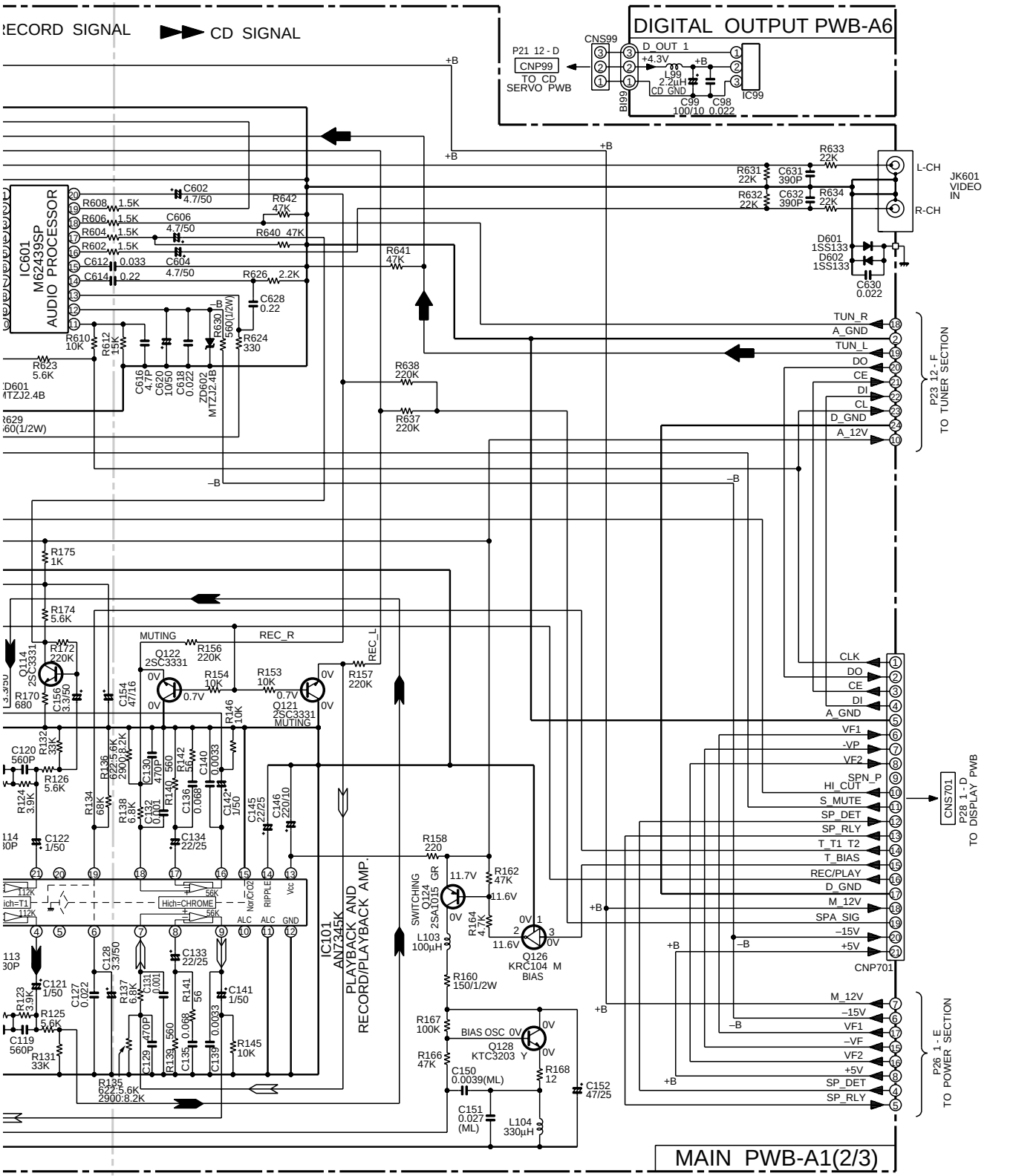
7	8	9	10	11	12

Figure 23 SCHEMATIC DIAGRAM (4/10)



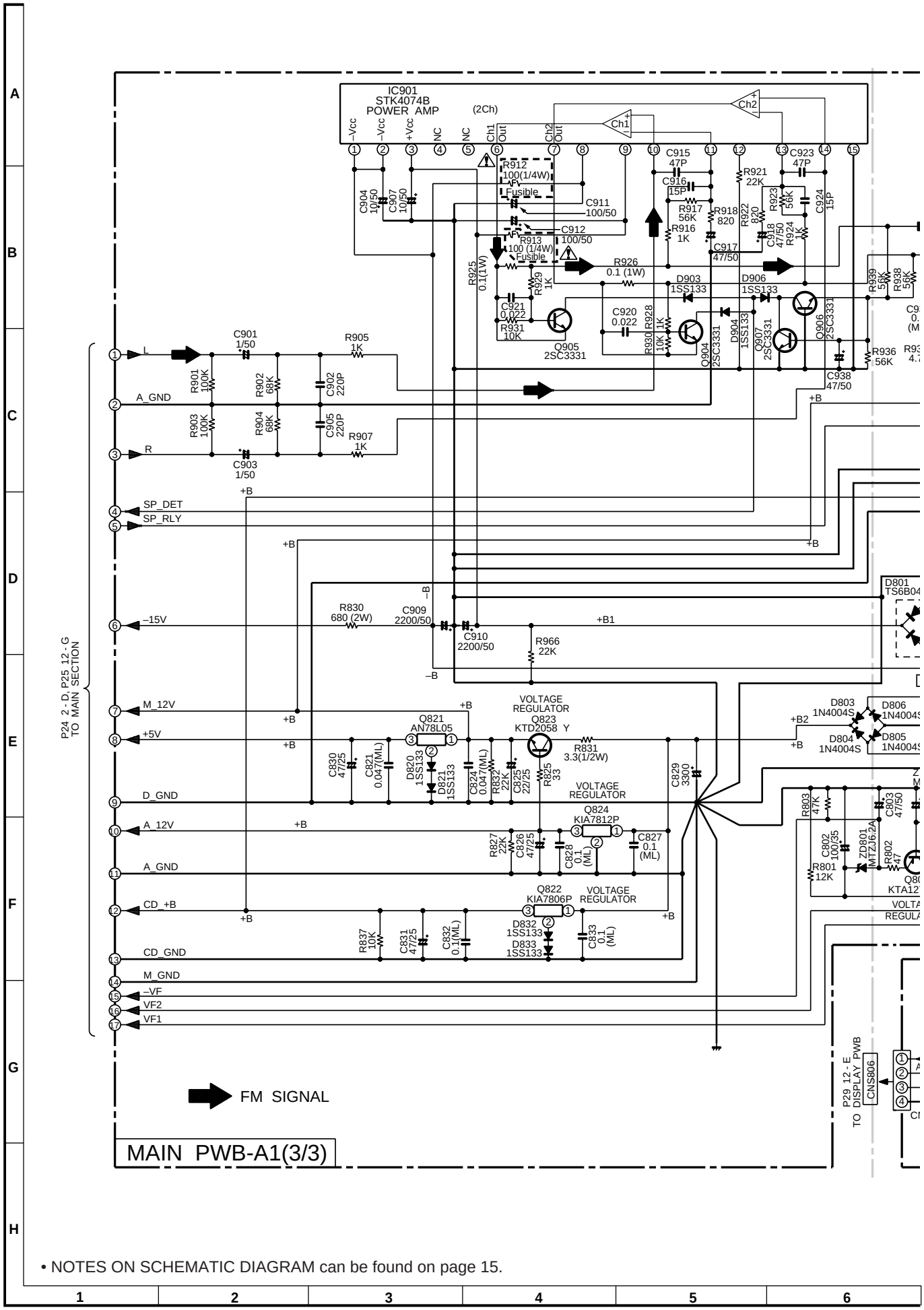
• NOTES ON SCHEMATIC DIAGRAM can be found on page 15.

Figure 24 SCHEMATIC DIAGRAM (5/10)



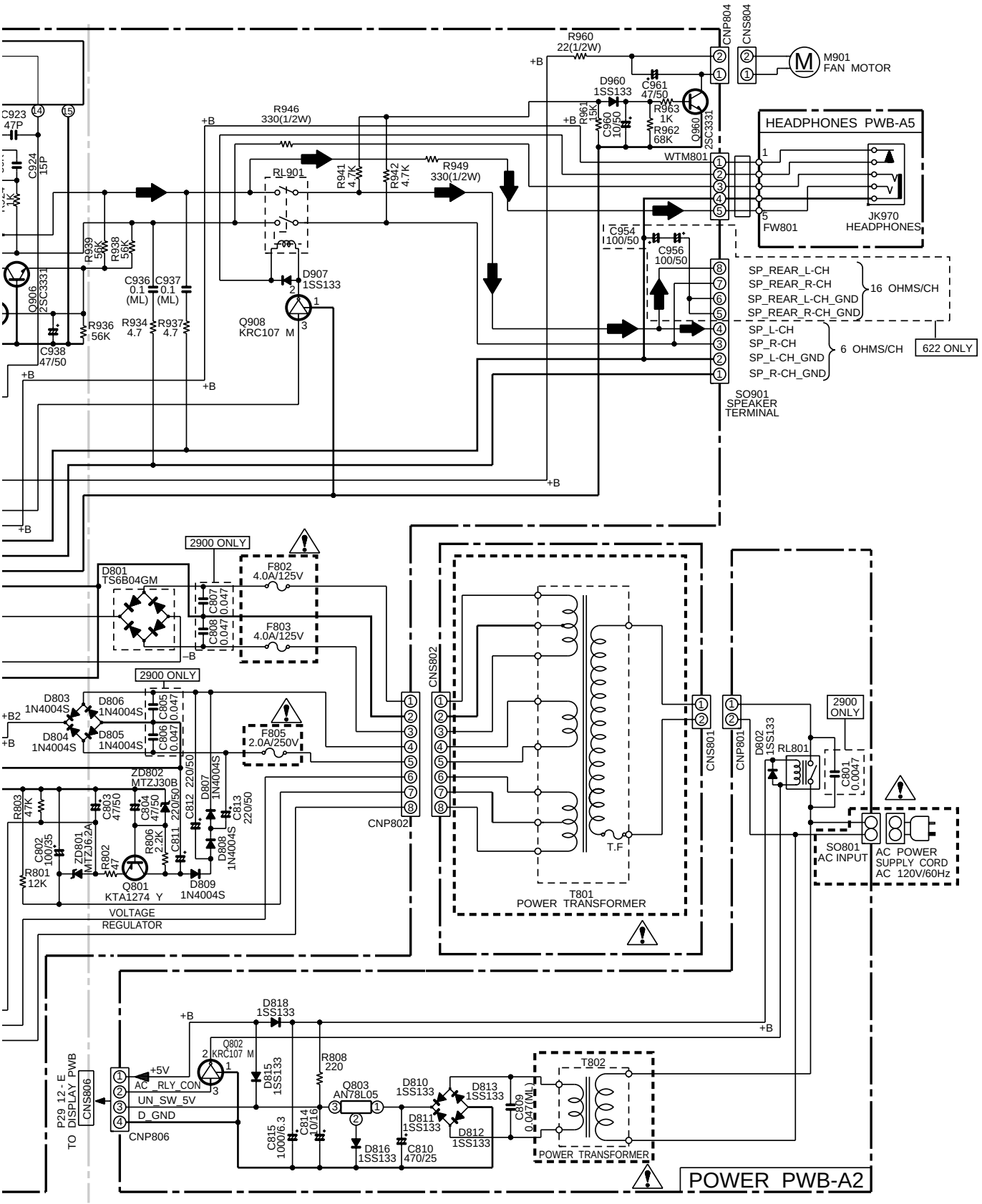
7	8	9	10	11	12

Figure 25 SCHEMATIC DIAGRAM (6/10)



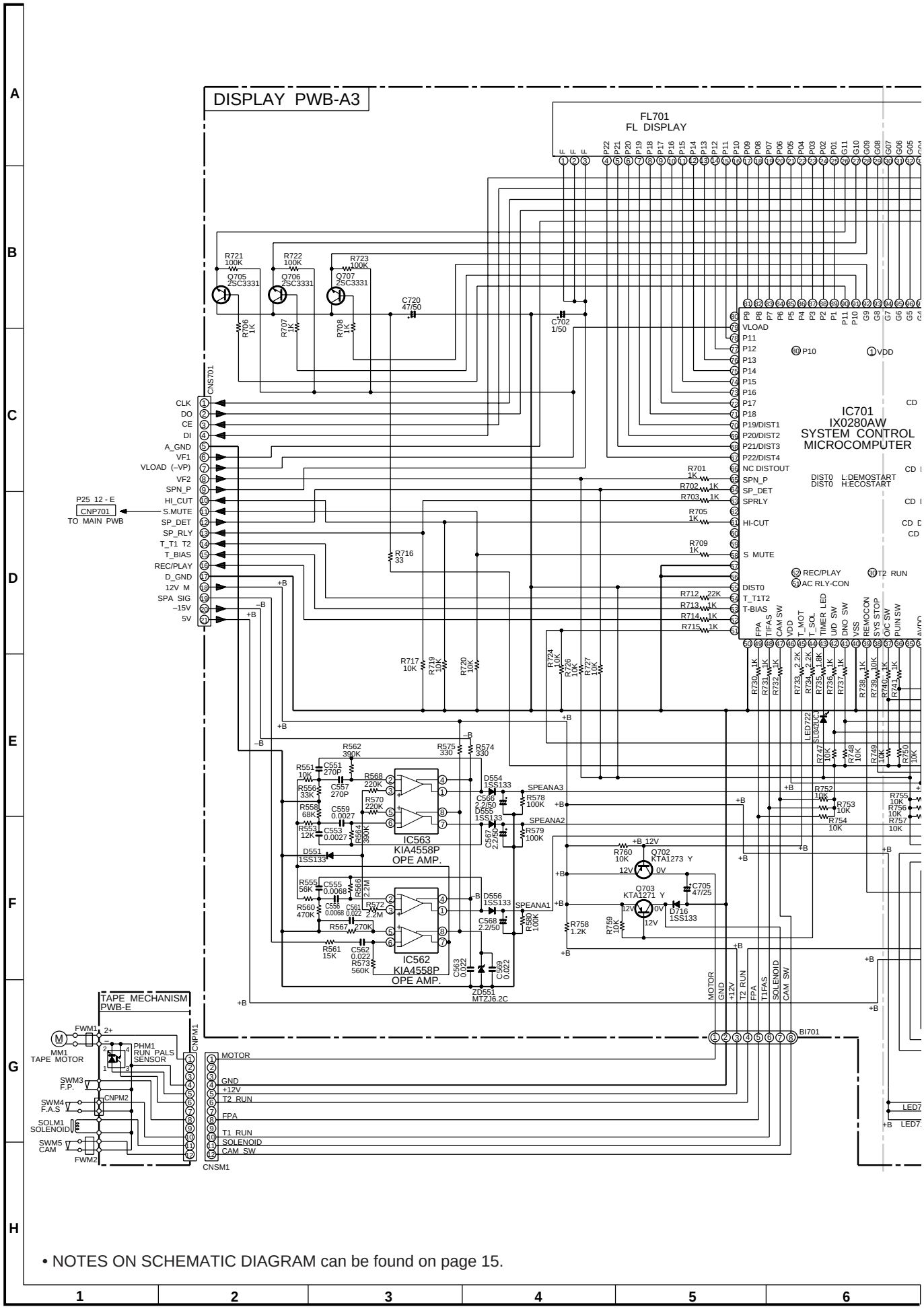
• NOTES ON SCHEMATIC DIAGRAM can be found on page 15.

Figure 26 SCHEMATIC DIAGRAM (7/10)



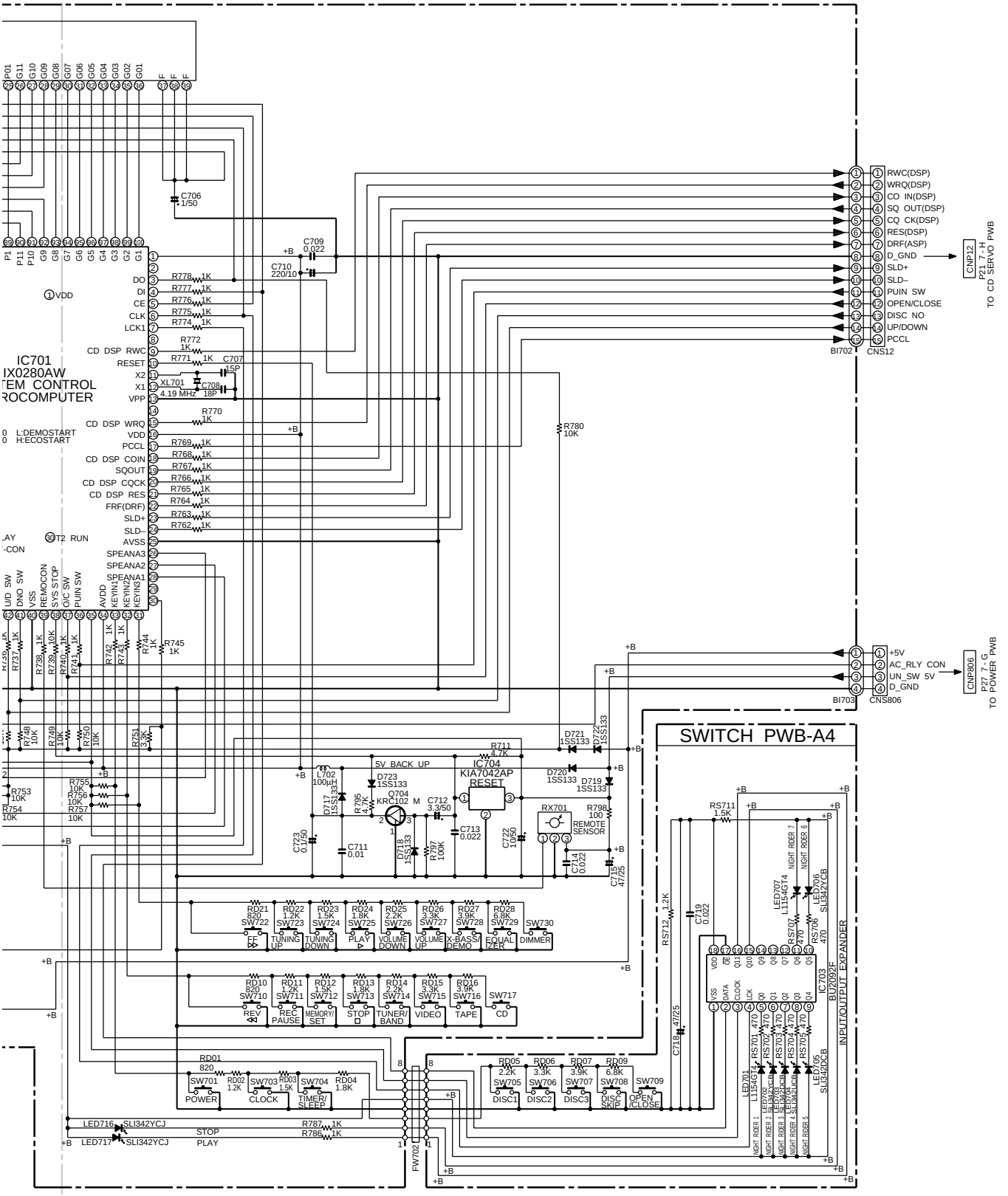
7	8	9	10	11	12

Figure 27 SCHEMATIC DIAGRAM (8/10)



• NOTES ON SCHEMATIC DIAGRAM can be found on page 15.

Figure 28 SCHEMATIC DIAGRAM (9/10)



7	8	9	10	11	12

Figure 29 SCHEMATIC DIAGRAM (10/10)

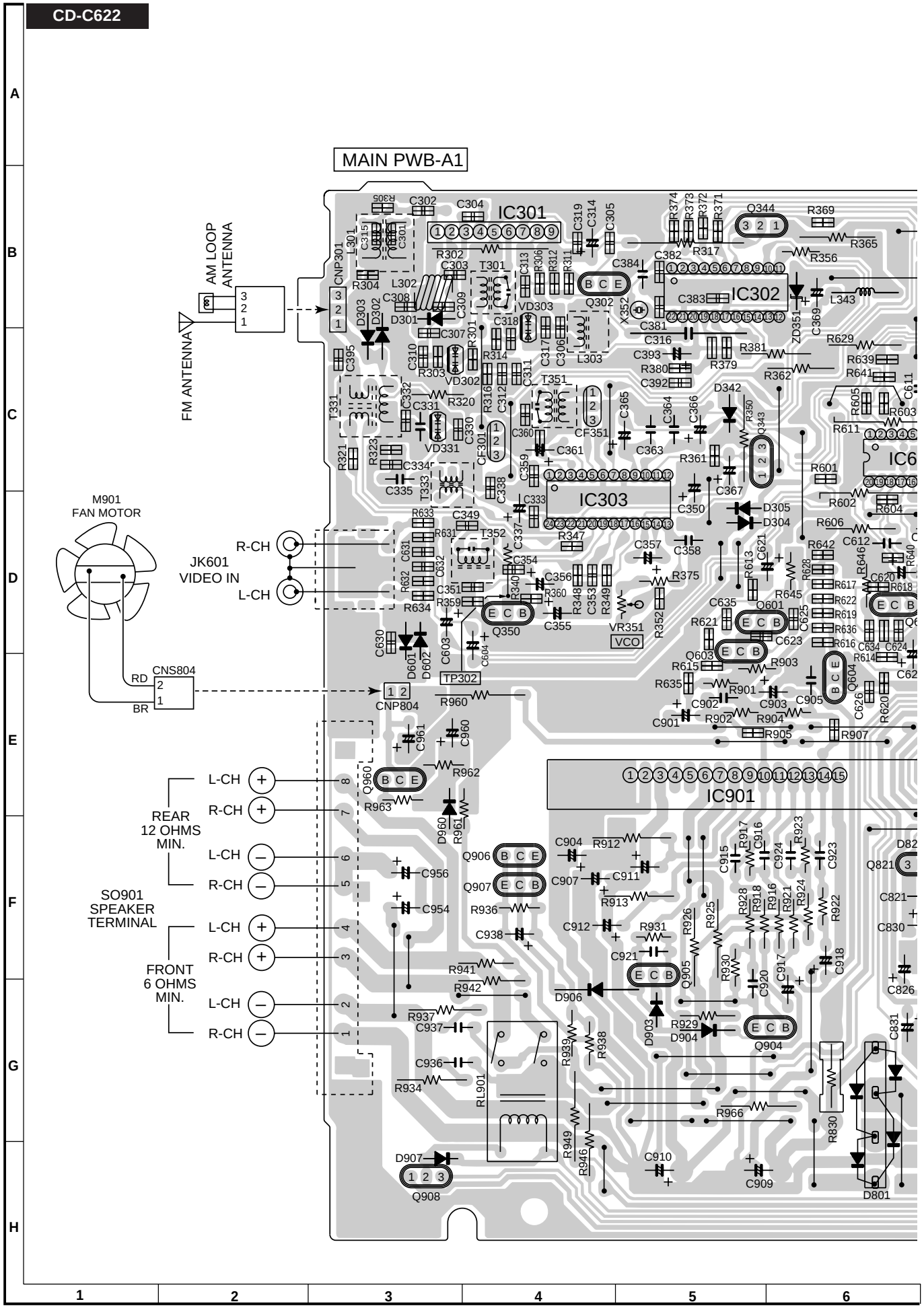
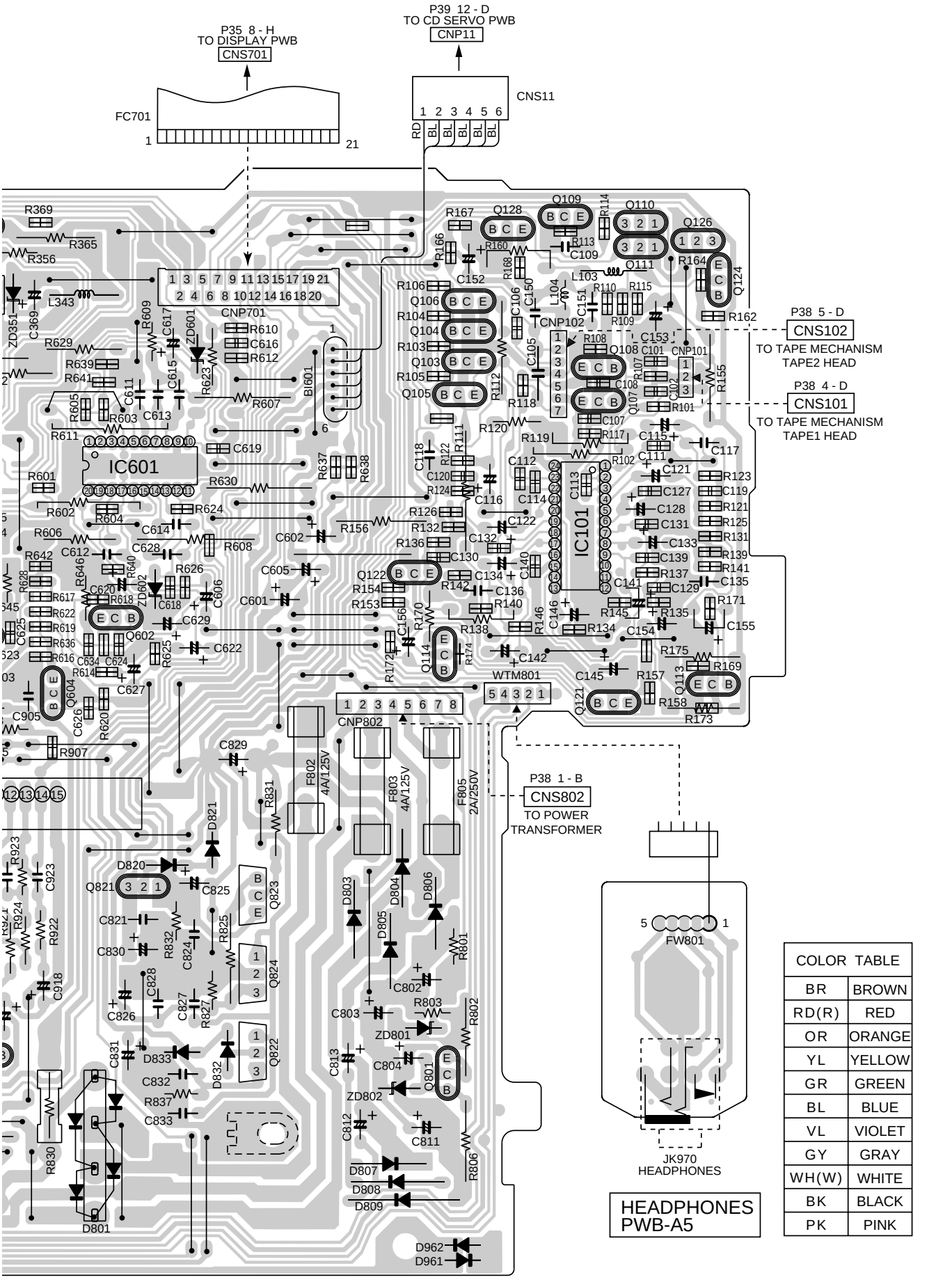


Figure 30 WIRING SIDE OF P.W.BOARD (1/11)



7	8	9	10	11	12

Figure 31 WIRING SIDE OF P.W.BOARD (2/11)

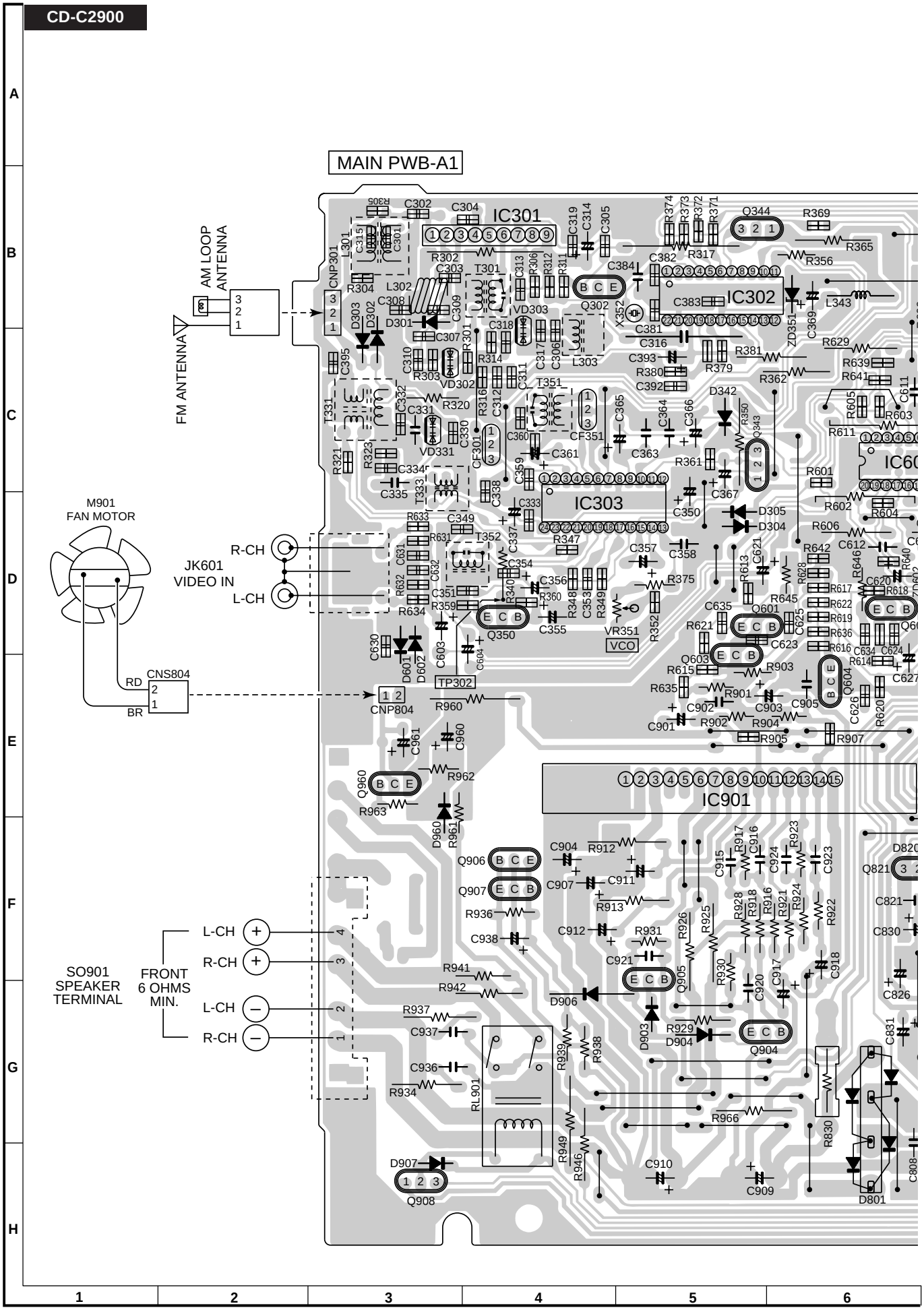
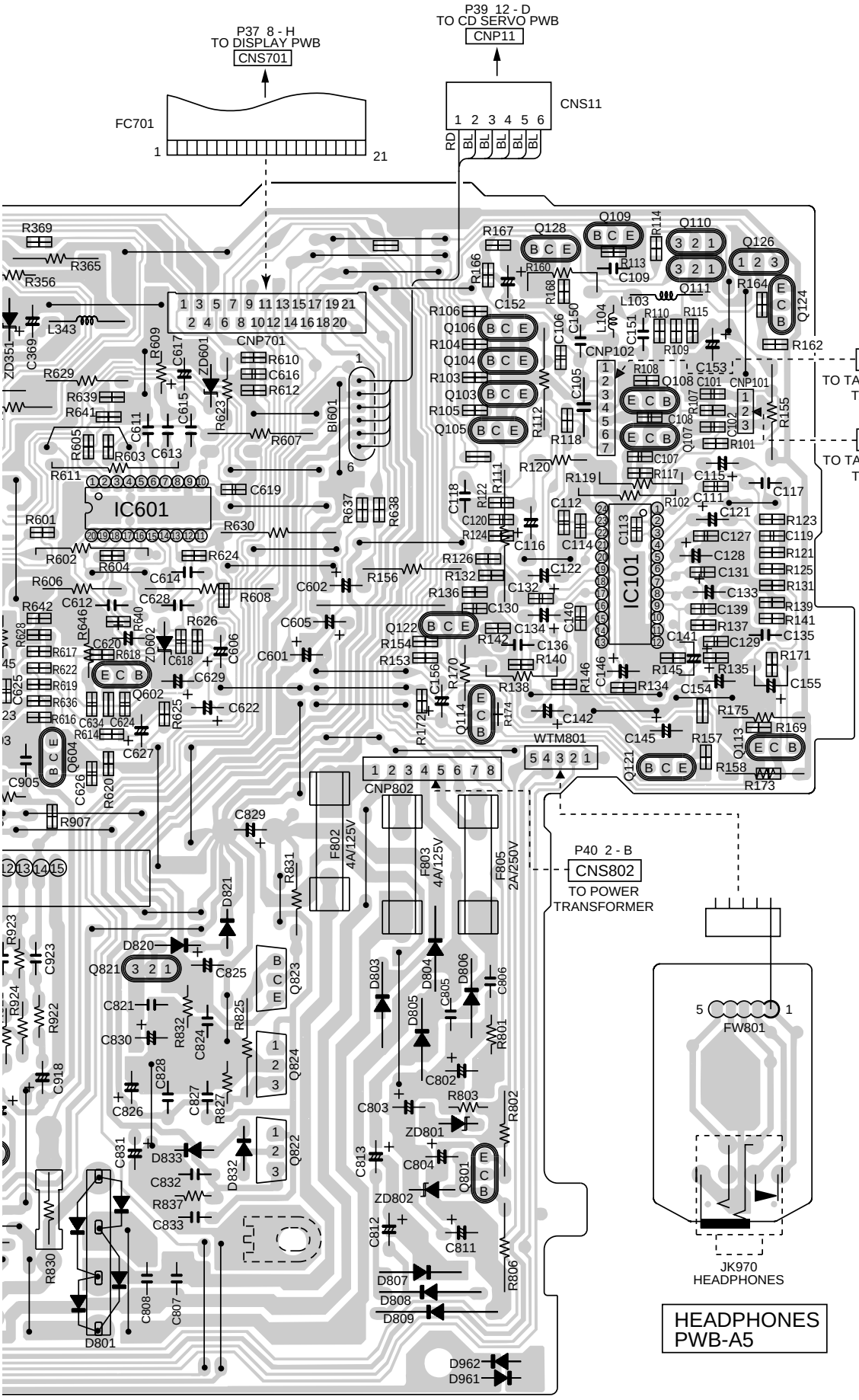


Figure 32 WIRING SIDE OF P.W.BOARD (3/11)



COLOR TABLE	
BR	BROWN
RD(R)	RED
OR	ORANGE
YL	YELLOW
GR	GREEN
BL	BLUE
VL	VIOLET
GY	GRAY
WH(W)	WHITE
BK	BLACK
PK	PINK

7	8	9	10	11	12

Figure 33 WIRING SIDE OF P.W.BOARD (4/11)

CD-C622

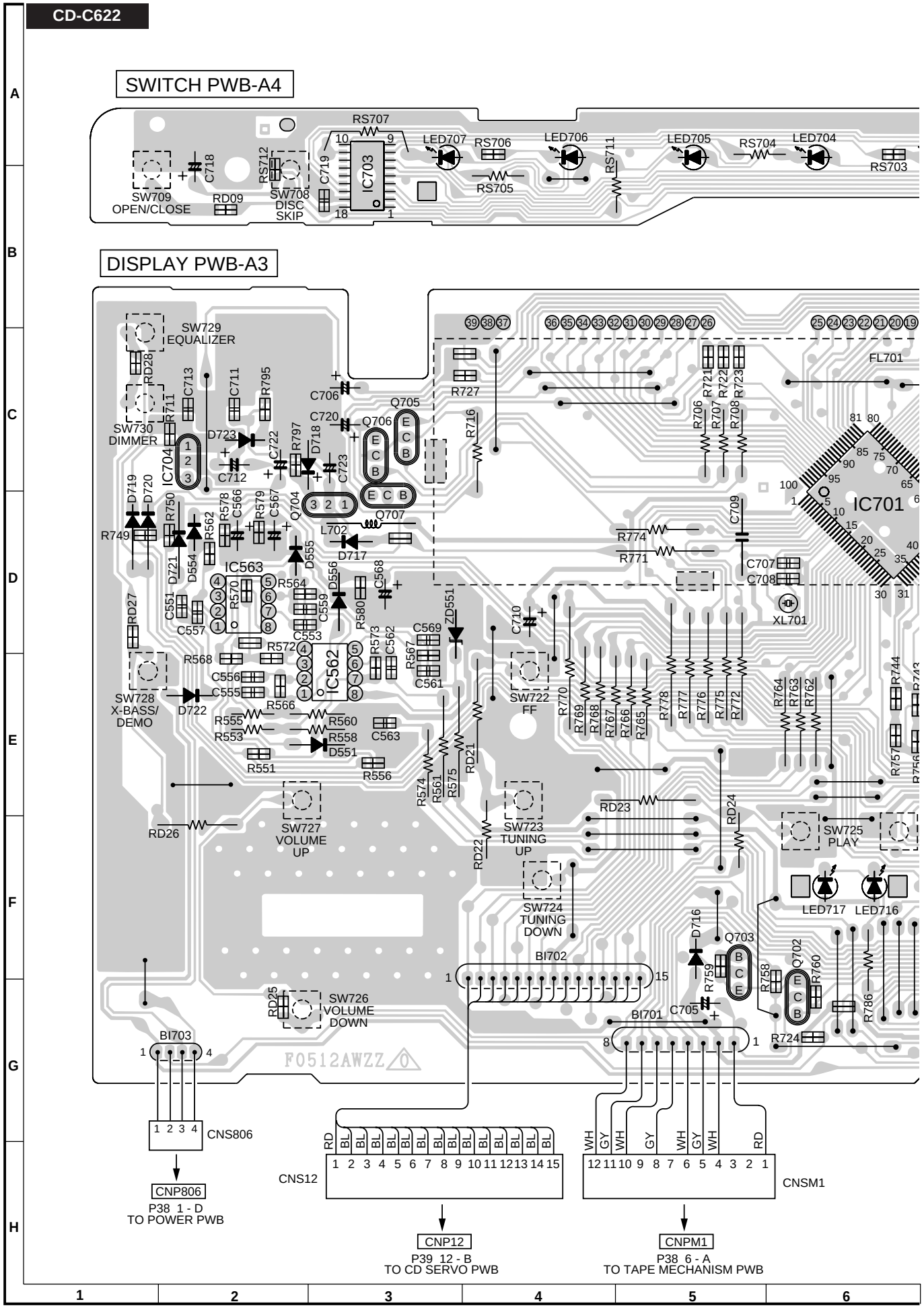


Figure 34 WIRING SIDE OF P.W.BOARD (5/11)

COLOR TABLE	BR	RD(R)	OR	YL	GR	BL	VL	GY	WH(W)	BK	PK
	BROWN	RED	ORANGE	YELLOW	GREEN	BLUE	VIOLET	GRAY	WHITE	BLACK	PINK

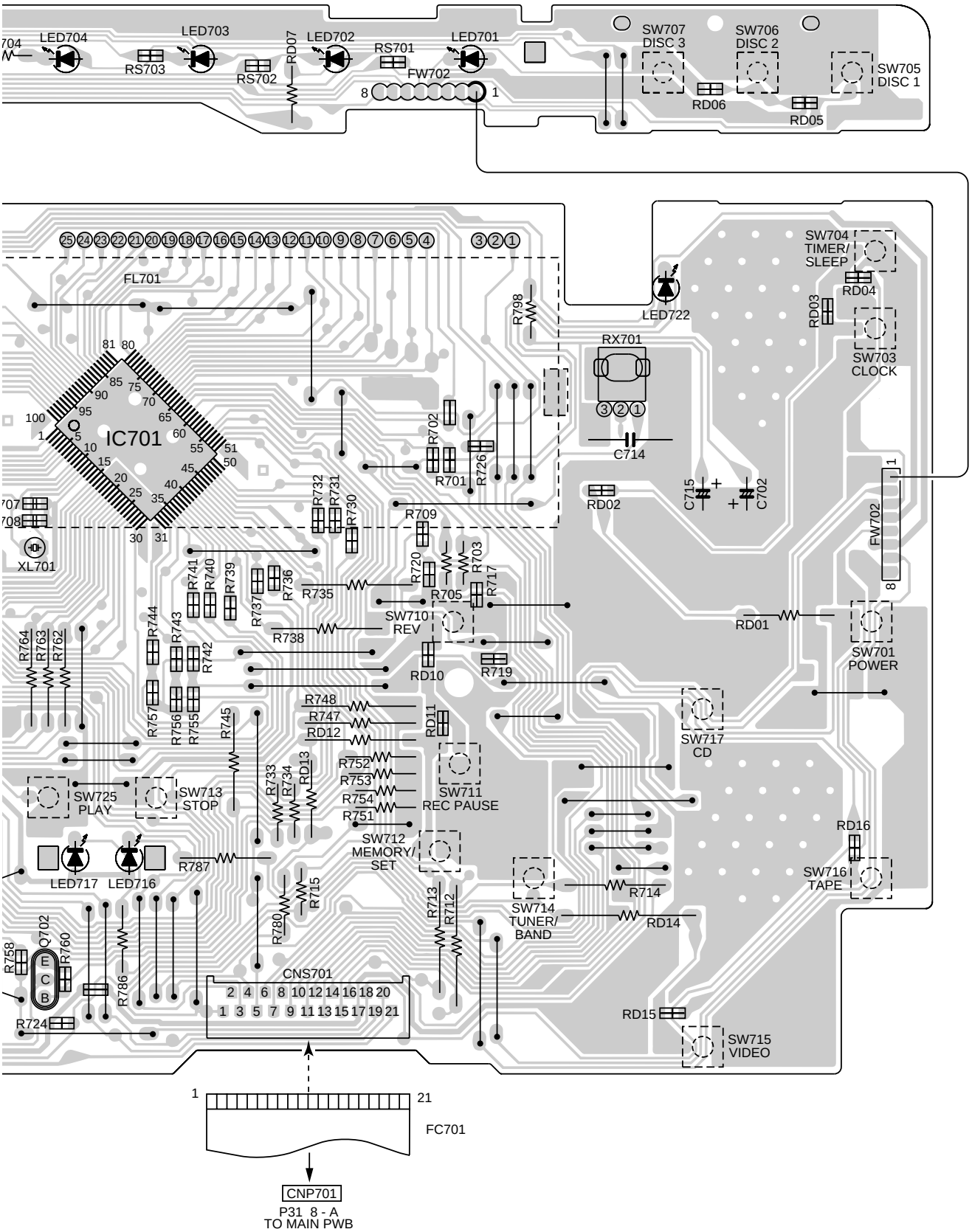


Figure 35 WIRING SIDE OF P.W.BOARD (6/11)

CD-C2900

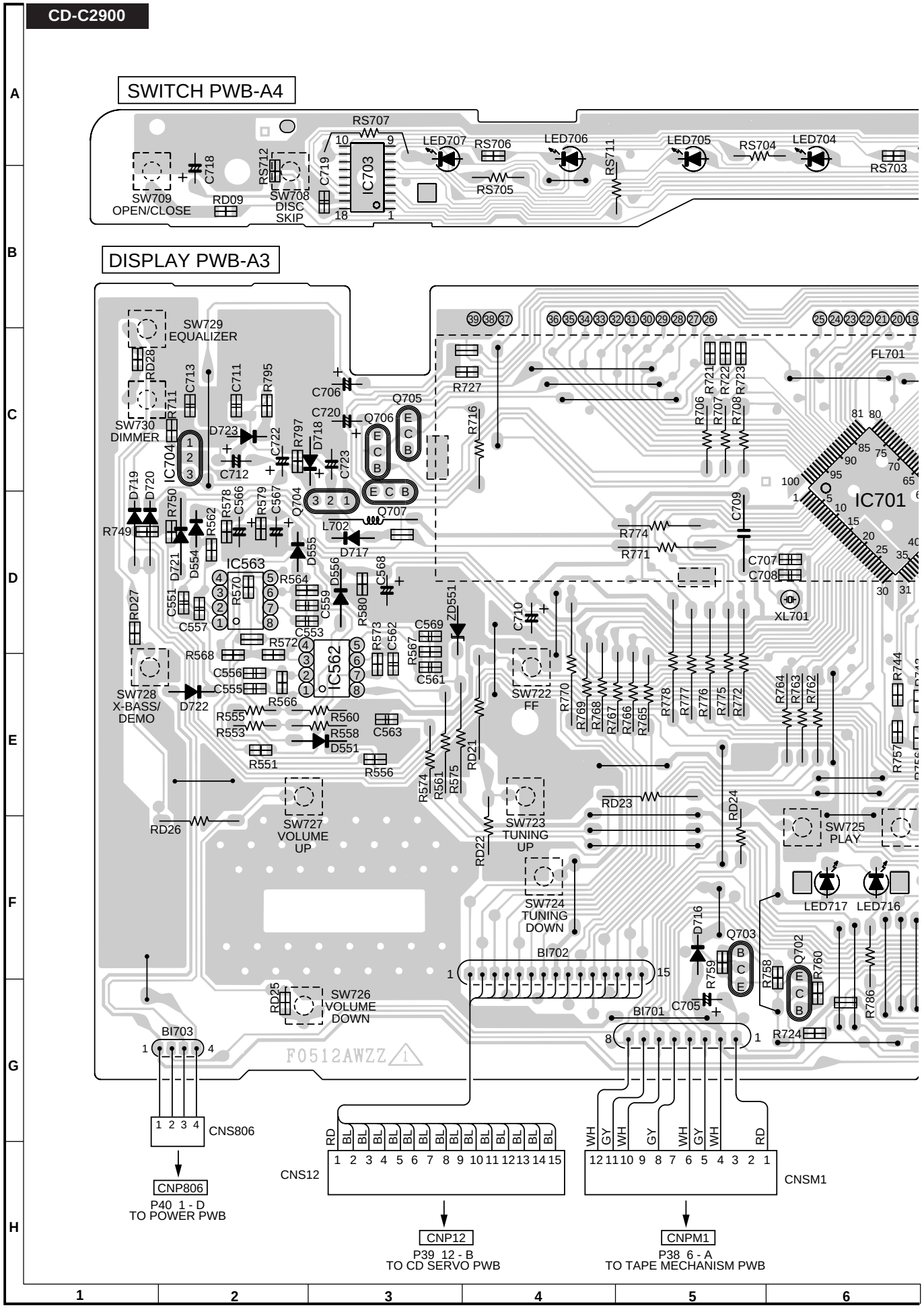
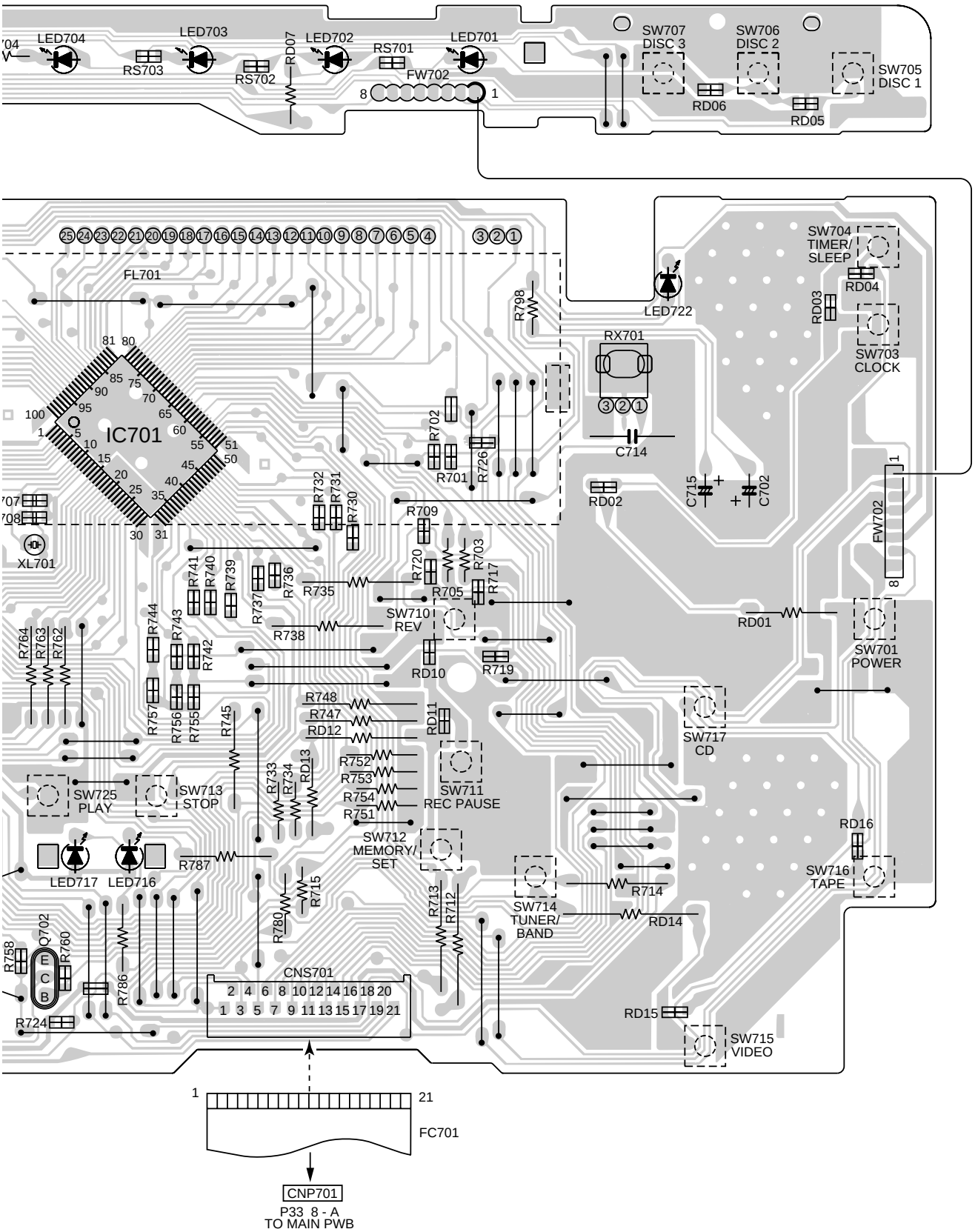


Figure 36 WIRING SIDE OF P.W.BOARD (7/11)

COLOR TABLE	BR	RD(R)	OR	YL	GR	BL	VL	GY	WH(W)	BK	PK
	BROWN	RED	ORANGE	YELLOW	GREEN	BLUE	VIOLET	GRAY	WHITE	BLACK	PINK



7	8	9	10	11	12

Figure 37 WIRING SIDE OF P.W.BOARD (8/11)

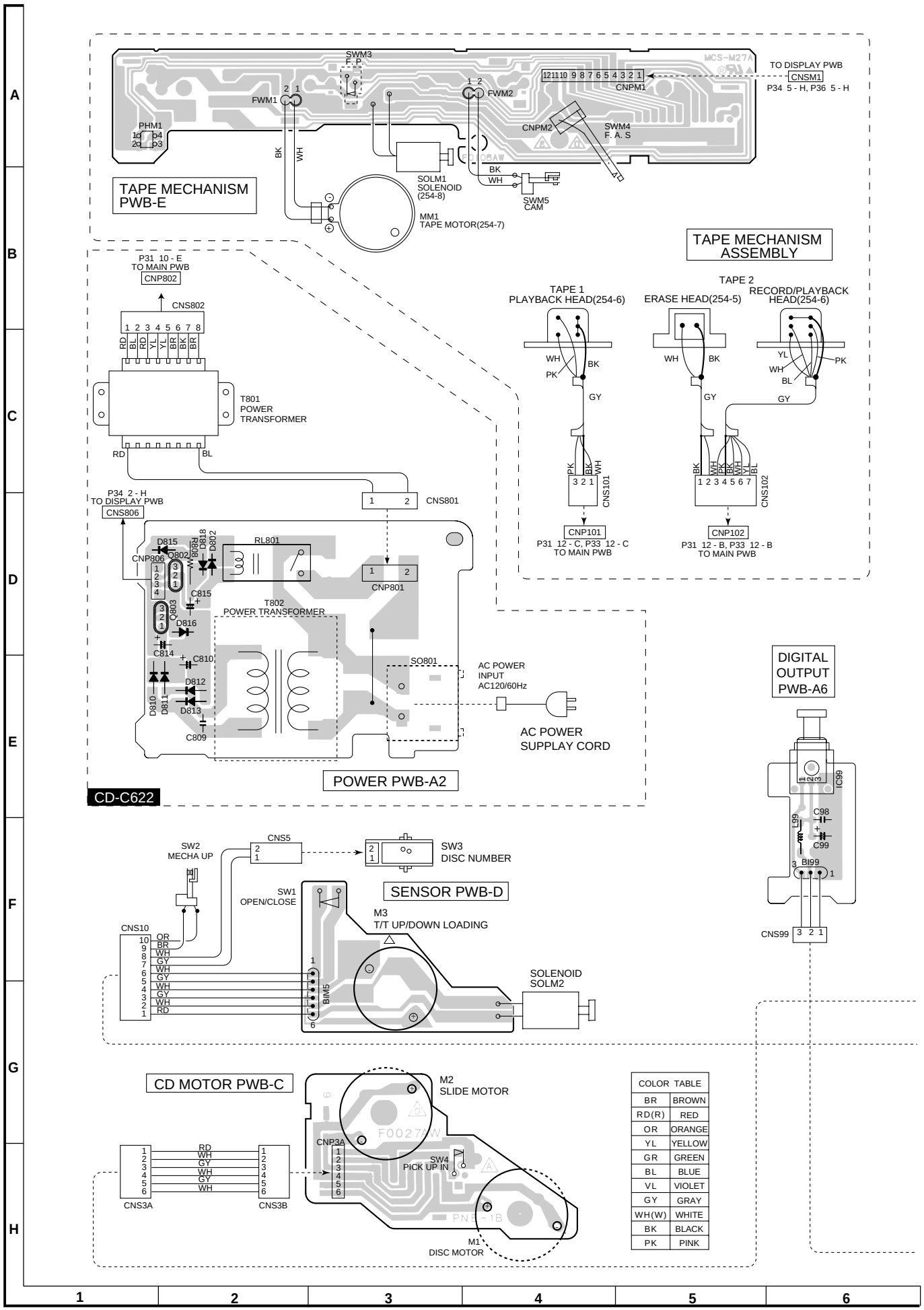
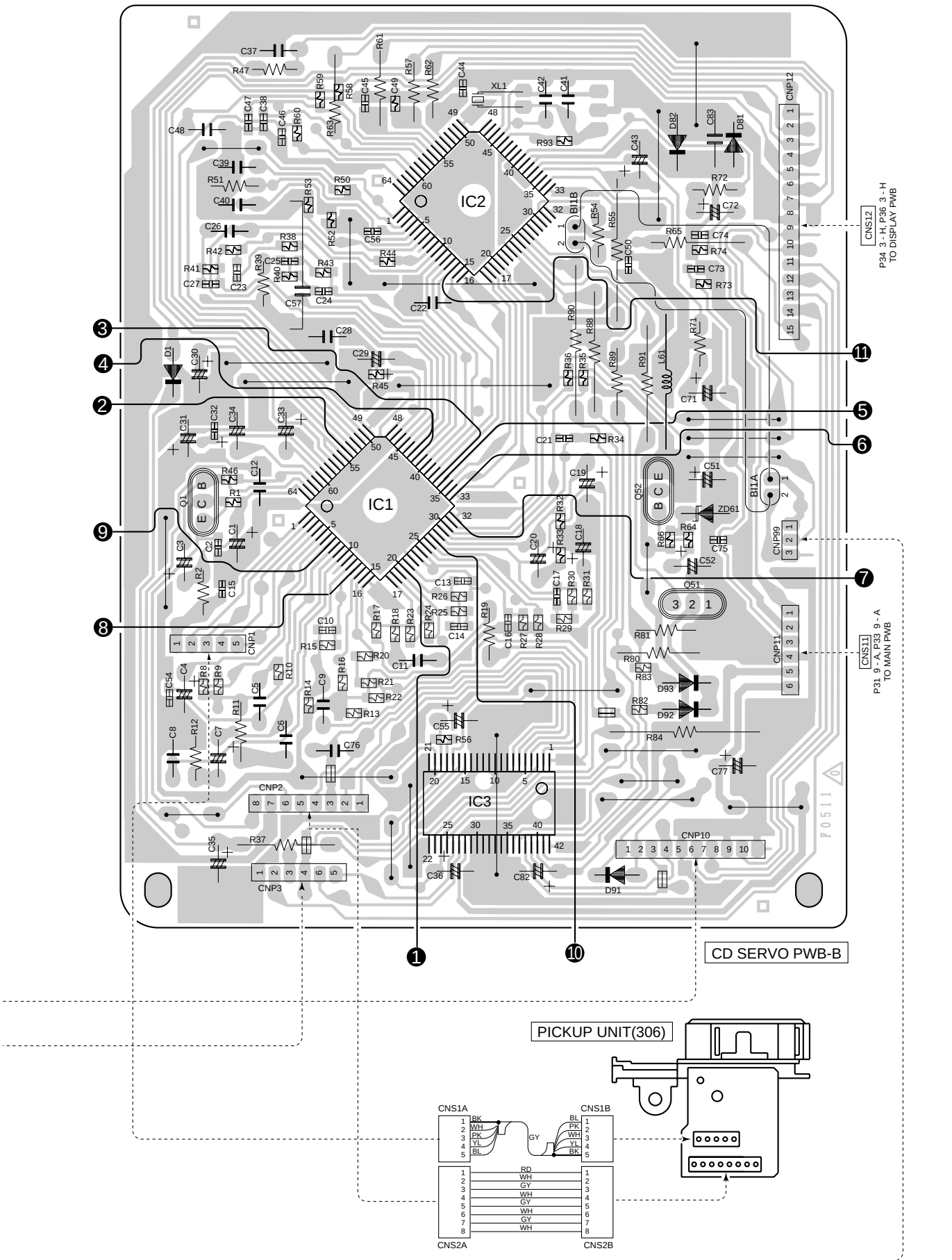


Figure 38 WIRING SIDE OF P.W.BOARD (9/11)



• The numbers ❶ to ⓬ are waveform numbers shown in page 16.

7	8	9	10	11	12

Figure 39 WIRING SIDE OF P.W.BOARD (10/11)

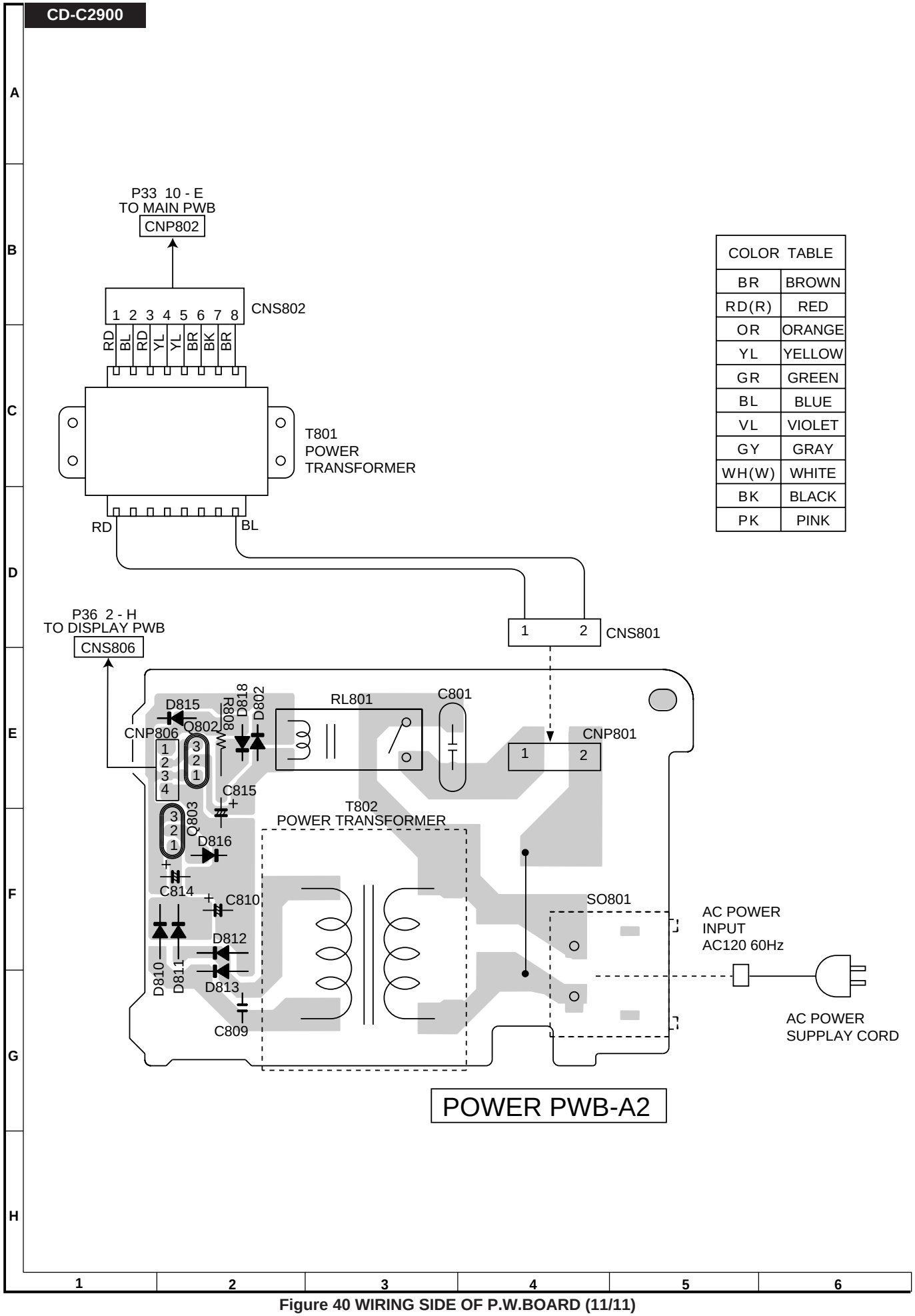


Figure 40 WIRING SIDE OF P.W.BOARD (11/11)

VOLTAGE

IC1	
PIN NO.	VOLTAGE
1	2.5V
2	2.5V
3	2.5V
4	2.5V
5	2.5V
6	2.5V
7	2.5V
8	2.5V
9	2.5V
10	2.5V
11	2.5V
12	2.5V
13	2.5V
14	2.5V
15	2.5V
16	2.5V
17	2.5V
18	2.5V
19	2.5V
20	2.5V
21	2.5V
22	0V
23	2.5V
24	2.5V
25	2.5V
26	2.5V
27	2.5V
28	2.5V
29	2.5V
30	2.3V
31	2.3V
32	0V
33	0V
34	5.0V
35	5.0V
36	0V
37	0V
38	5.0V
39	0V
40	0V
41	1.6V
42	2.4V
43	2.4V
44	2.4V
45	0V
46	2.5V
47	2.5V
48	0V
49	0V
50	2.4V
51	4.6V
52	4.6V
53	0V
54	0V
55	5.0V
56	5.0V
57	2.5V
58	2.5V
59	1.0V
60	1.0V
61	2.2V
62	4.2V
63	0V
64	5.0V

IC2	
PIN NO.	VOLTAGE
1	0V
2	0V
3	0V
4	0V
5	1.9V
6	5.0V
7	0V
8	0V
9	2.5V
10	2.4V
11	0V
12	0V
13	0V
14	5.0V
15	0V
16	0V
17	5.0V
18	5.0V
19	0V
20	0V
21	2.5V
22	0V
23	5.0V
24	0V
25	0V
26	0V
27	0V
28	0V
29	0V
30	5.0V
31	2.5V
32	0V
33	0V
34	0V
35	5.0V
36	4.6V
37	1.9V
38	0V
39	0V
40	1.9V
41	4.6V
42	5.0V
43	5.0V
44	2.1V
45	2.1V
46	0V
47	0.1V
48	2.3V
49	0V
50	2.5V
51	0V
52	2.5V
53	0V
54	0V
55	0V
56	4.6V
57	4.6V
58	4.7V
59	0V
60	2.3V
61	2.3V
62	0V
63	0V
64	0V

IC3	
PIN NO.	VOLTAGE
1	2.5V
2	2.6V
3	2.9V
4	3.3V
5	3.3V
6	3.3V
7	3.3V
8	0V
9	0V
10	0V
11	0V
12	0V
13	0V
14	0V
15	3.3V
16	3.3V
17	3.0V
18	7.2V
19	5.0V
20	2.5V
21	0V
22	0V
23	0V
24	7.2V
25	2.5V
26	3.3V
27	3.3V
28	11.2V
29	0V
30	0V
31	0V
32	0V
33	0V
34	0V
35	0V
36	5.3V
37	5.3V
38	3.3V
39	3.3V
40	7.2V
41	0.1V
42	0.1V

IC101	
PIN NO.	VOLTAGE
1	0V (0V)
2	0V (0V)
3	0.5V (0.5V)
4	4.3V (4.3V)
5	0.2V (0.3V)
6	1.3V (1.3V)
7	0V (0V)
8	0.6V (0.6V)
9	4.1V (4.1V)
10	4.0V (4.0V)
11	0V (0V)
12	0V (0V)
13	8.1V (8.1V)
14	4.8V (4.8V)
15	0V (0V)
16	4.1V (4.1V)
17	0.6V (0.6V)
18	0V (0V)
19	2.5V (2.6V)
20	0.2V (0.3V)
21	4.3V (4.3V)
22	0.5V (0.5V)
23	0V (0V)
24	0V (0V)

IC301	
PIN NO.	VOLTAGE
1	0.9V (0V)
2	1.6V (0V)
3	6.0V (0.4V)
4	1.6V (0V)
5	0V (0V)
6	6.0V (0.3V)
7	5.2V (0.2V)
8	5.9V (0.3V)
9	6.0V (0.3V)

IC562	
PIN NO.	VOLTAGE
1	0.2V
2	0.2V
3	0.2V
4	–9.8V
5	0V
6	0V
7	0V
8	6.2V

IC563	
PIN NO.	VOLTAGE
1	0.2V
2	0.2V
3	0.2V
4	–9.8V
5	0.2V
6	0.2V
7	0.2V
8	6.2V

IC703	
PIN NO.	VOLTAGE
1	0V
2	0V
3	0.2V
4	0V
5	9.8V
6	9.8V
7	9.8V
8	9.9V
9	9.8V
10	9.8V
11	9.8V
12	0.5V
13	0.5V
14	0.5V
15	9.8V
16	9.8V
17	0V
18	5.0V

IC302	
PIN NO.	VOLTAGE
1	2.5V (2.5V)
2	0V (0V)
3	0V (0V)
4	0V (0V)
5	4.5V (4.5V)
6	4.5V (4.5V)
7	0.2V (11.9V)
8	0V (0V)
9	0V (0V)
10	0V (0V)
11	5.1V (5.1V)
12	0V (0V)
13	0V (0V)
14	0V (0V)
15	0V (2.5V)
16	2.5V (0V)
17	5.1V (5.1V)
18	0.9V (0.9V)
19	0.9V (0.9V)
20	1.3V (1.1V)
21	0V (0V)
22	2.5V (2.5V)

IC601	
PIN NO.	VOLTAGE
1	0V
2	0V
3	0V
4	0V
5	0V
6	0V
7	0V
8	0V
9	0V
10	2.7V
11	0.2V
12	–2.7V
13	0V
14	0V
15	0V
16	0V
17	0V
18	0V
19	0V
20	0V

IC704	
PIN NO.	VOLTAGE
1	5.0V
2	0V
3	5.0V

IC303	
PIN NO.	VOLTAGE
1	1.6V (1.6V)
2	1.6V (1.6V)
3	7.1V (8.1V)
4	0.2V (0.6V)
5	1.6V (1.6V)
6	0V (0V)
7	5.1V (5.1V)
8	0V (0V)
9	2.3V (2.3V)
10	2.3V (2.3V)
11	6.4V (8.1V)
12	0.9V (0.9V)
13	1.1V (2.1V)
14	1.8V (1.6V)
15	2.2V (1.3V)
16	1.7V (1.7V)
17	1.6V (1.7V)
18	1.6V (1.6V)
19	0.4V (0.5V)
20	7.1V (8.1V)
21	7.1V (8.1V)
22	1.7V (1.7V)
23	1.7V (1.7V)
24	1.7V (1.7V)

(CD-C622)

IC901	
PIN NO.	VOLTAGE
1	–30.4V
2	–30.4V
3	30.5V
4	0V
5	0V
6	0V
7	0V
8	–29.4V
9	29.4V
10	–0.1V
11	–0.1V
12	–28.0V
13	–0.1V
14	0.1V
15	0V

(CD-C2900)

IC901	
PIN NO.	VOLTAGE
1	–31.6V
2	–31.6V
3	31.8V
4	0V
5	0V
6	0V
7	0V
8	–30.5V
9	30.5V
10	–0.2V
11	–0.2V
12	–29.1V
13	–0.2V
14	0.2V
15	0V

IC701			
PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	4.7V	51	4.6V
2	4.7V	52	4.6 V
3	4.7V	53	0V
4	0V	54	4.6V
5	0V	55	0V
6	0V	56	0V
7	0V	57	0V
8	0V	58	4.5V
9	0V	59	4.7V
10	5.0V	60	4.6V
11	2.3V	61	0V
12	2.3V	62	4.9V
13	0V	63	4.9V
14	4.7V	64	4.9V
15	0V	65	4.9V
16	4.7V	66	–27.5V
17	0V	67	–27.5V
18	4.7V	68	–27.5V
19	0V	69	–27.5V
20	4.7V	70	–27.5V
21	4.7V	71	–27.5V
22	0V	72	–27.5V
23	0V	73	–27.5V
24	0V	74	–27.5V
25	0V	75	–27.5V
26	0V	76	–27.2V
27	0V	77	–24.6V
28	0V	78	–27.5V
29	0V	79	–27.5V
30	0V	80	–24.6V
31	4.9V	81	–22.0V
32	4.9V	82	–22.0V
33	4.9V	83	–24.7V
34	4.7V	84	–27.2V
35	5.0V	85	–27.2V
36	0V	86	–27.3V
37	0V	87	–21.4V
38	4.9V	88	–22.0V
39	4.8V	89	–24.7V
40	0V	90	–24.7V
41	0V	91	–24.7V
42	0V	92	–24.7V
43	3.5V	93	–24.7V
44	11.2V	94	–24.7V
45	11.2V	95	–24.7V
46	4.7V	96	–24.7V
47	4.7V	97	–24.7V
48	4.7V	98	–24.7V
49	4.7V	99	–24.7V
50	0V	100	–24.7V

Q821	
PIN NO.	VOLTAGE
1	11.2V
2	6.2V
3	1.2V

Q822	
PIN NO.	VOLTAGE
1	18.0V
2	1.3V
3	7.2V

Q823	
PIN NO.	VOLTAGE
1	11.9V
2	17.2V
3	11.2V

Q824	
PIN NO.	VOLTAGE
1	18.0V
2	0V
3	12.0V

TROUBLESHOOTING (CD SECTION)

When the CD does not function

When the CD section does not operate When the objective lens of the optical pickup is dirty,this section may not operate.Clean the objective lens,and check the playback operation.When this section does not operate even after the above step is taken,check the following items.
Remove the cabinet and follow the troubleshooting instructions.
"Track skipping and/or no TOC (Table Of Contents) may be caused by build up of dust other foreign matter on the laser pickup lens. Before attempting any adjustment make certain that the lens is clean. If not, clean it as mentioned below."

Turn the power off.
Gently clean the lens with a lens cleaning tissue and a small amount of isopropyl alcohol.
Do not touch the lens with the bare hand.

Dust gradually accumulates on the objective lens during use, and it may degrade performance.
To avoid this problem, use a cleaning disc designed for CD optical pickup lenses.

HOW TO USE

1. Using the brush in the cleaner cap, apply 1 or 2 drops of the cleaning fluid to the brush on the CD cleaner disc which has ▲ the mark next to it.
2. Place the CD cleaner disc onto the CD disc tray with the brush side down, then press the play button.
3. You will hear musicfor about 20 seconds and the CD player will automatically stop. If it continues to turn, press the stop button.

CAUTION

- The CD lens cleaner should be effective for 30 - 50 operations, however if the brushes become worn out earlier then please replace the cleaner disc.
- If the CD cleaner brushes become very wet then wipe off any excess fluid with a soft cloth.
- Do not drink the cleaner fluid or allow it to come in contact with the eyes. in the event of this happening then drink and / or rinse with clean water and seek medical advice.
- The CD cleaner disc must not be used on car CD player or on computer CD ROM drives.

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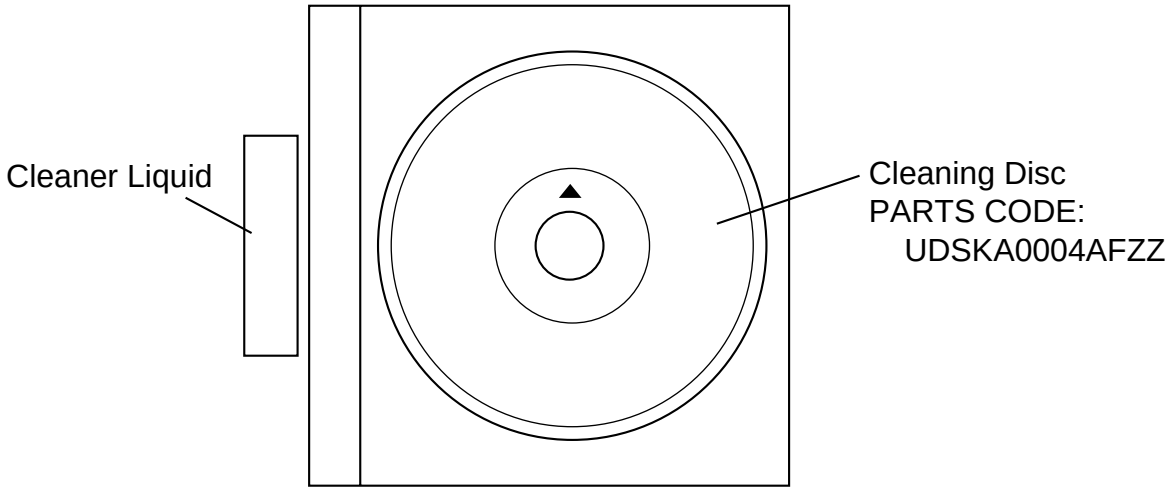
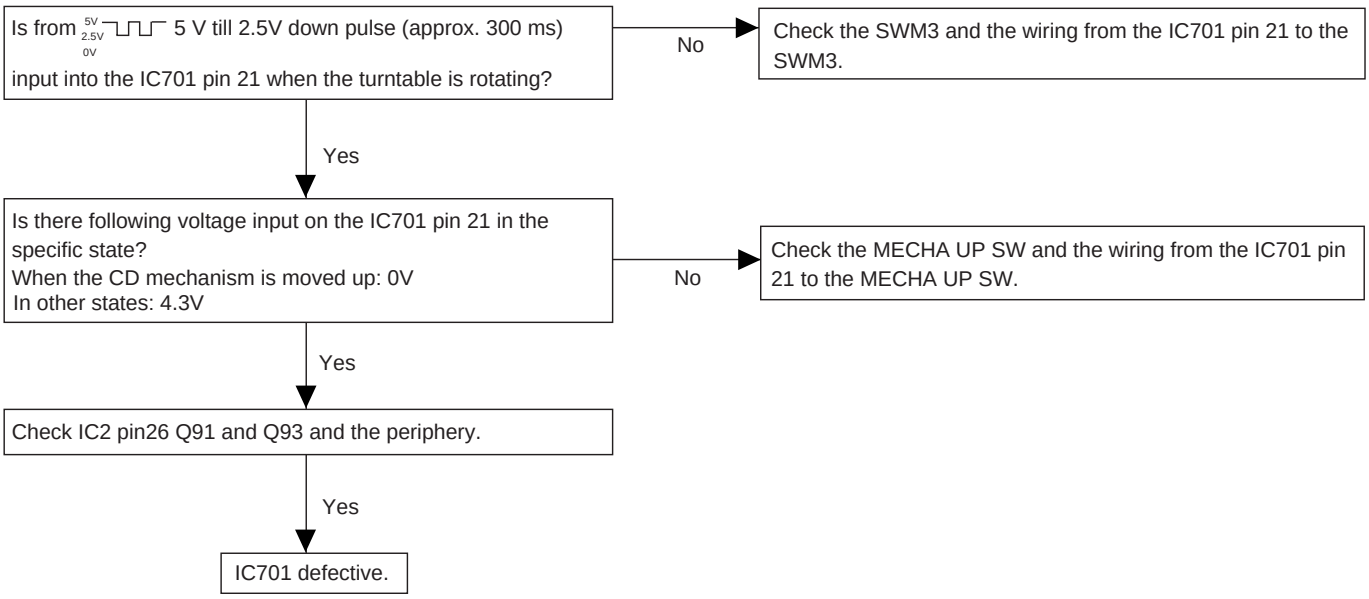
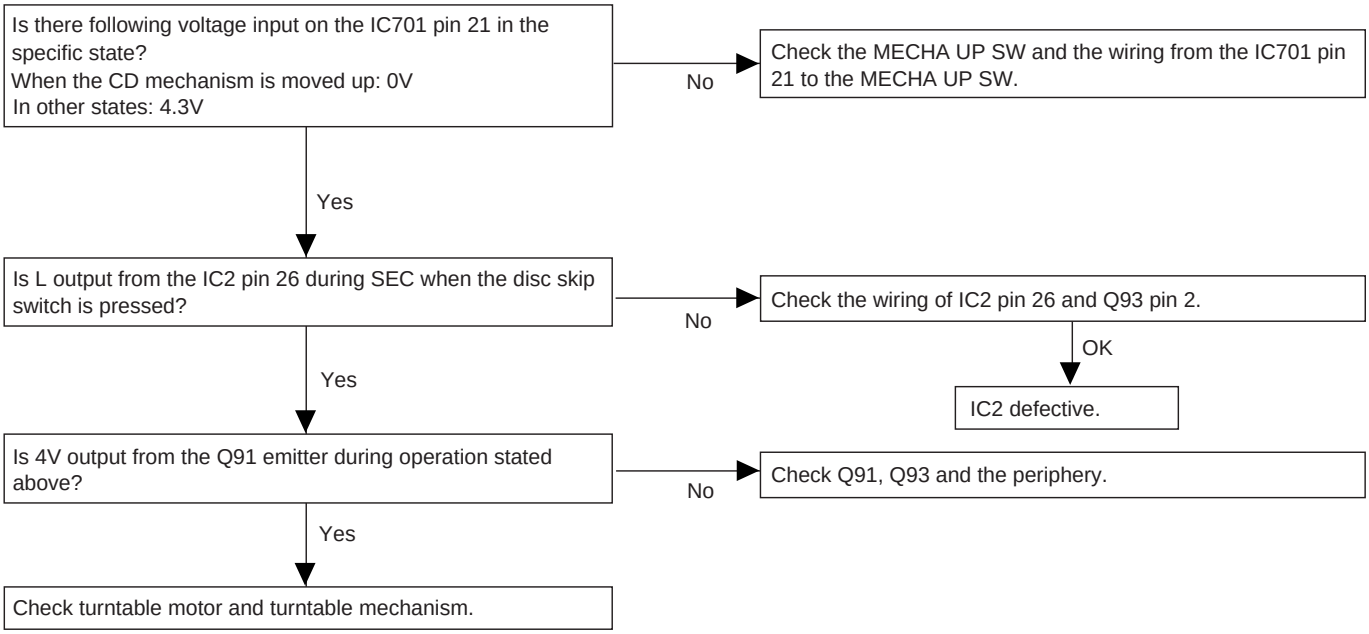


Figure 42

• When the turntable fails to stop.


Is from 5V 2.5V 0V 5 V till 2.5V down pulse (approx. 300 ms) input into the IC701 pin 21 when the turntable is rotating?
No
Check the SWM3 and the wiring from the IC701 pin 21 to the SWM3.
Yes
Is there following voltage input on the IC701 pin 21 in the specific state?
When the CD mechanism is moved up: 0V
In other states: 4.3V
No
Check the MECHA UP SW and the wiring from the IC701 pin 21 to the MECHA UP SW.
Yes
Check IC2 pin26 Q91 and Q93 and the periphery.
Yes
IC701 defective.

• When turntable fails to move.


Is there following voltage input on the IC701 pin 21 in the specific state?
When the CD mechanism is moved up: 0V
In other states: 4.3V
No
Check the MECHA UP SW and the wiring from the IC701 pin 21 to the MECHA UP SW.
Yes
Is L output from the IC2 pin 26 during SEC when the disc skip switch is pressed?
No
Check the wiring of IC2 pin 26 and Q93 pin 2.
OK
IC2 defective.
Yes
Is 4V output from the Q91 emitter during operation stated above?
No
Check Q91, Q93 and the periphery.
Yes
Check turntable motor and turntable mechanism.

• When the CD tray fails to open or close.

Is there following voltage input in specific state of IC701 pin 19?
Open state: 0V
Close state: 0V
Intermediate state between open state and close state: 4.3V

No → Check the OPEN CLOSE SW and the wiring from the IC701 pin 19 to the OPEN CLOSE SW.

Yes ↓

Is H output to IC2 pin 24 or 25 for 7 seconds when the OPEN/CLOSE key is pressed?IC91 is defective. Replace it.

No → Check the wiring of the IC2 pins 24 and 25, IC91 pins 1 and 3.

OK ↓

IC2 defective.

Yes ↓

Is 4V output between IC91 pins 3 and 7 during operation stated above?

No → Check the periphery of IC91.

OK ↓

IC91 defective.

Yes ↓

Check the loading motor (M1) and the loading mechanism.

• The CD function will not work.

The CD operating keys don't work.

Yes ↓

Check the CD, DSP, power supply, and 16.93 MHz clock, and reset terminal.

Yes ↓

Check the waveform of SCK, SO (DATA) and SI (COMM).

Yes ↓

See if the pick-up is in the pick-up in PICKUP IN SW position.

Yes ↓

If the items mentioned above are OK, check the main microcomputer IC701.

• The CD operating keys work.

Check the Focus - HF system.

Playback can be performed without a disc.

Yes ↓

Does the pick-up move up and down twice?

Yes → Focus search OK

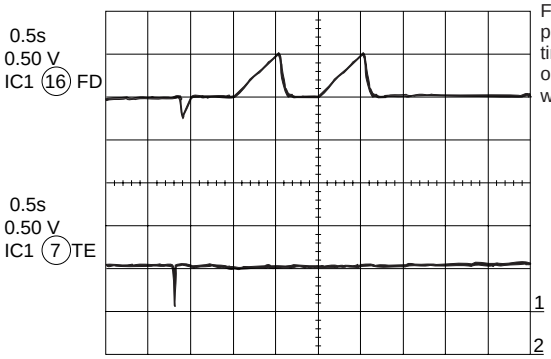
No ↓

Does the output waveform of IC1(16)(FD) match that shown in Fig. 44?

Yes → Check the area around IC5-CNP2.

No ↓

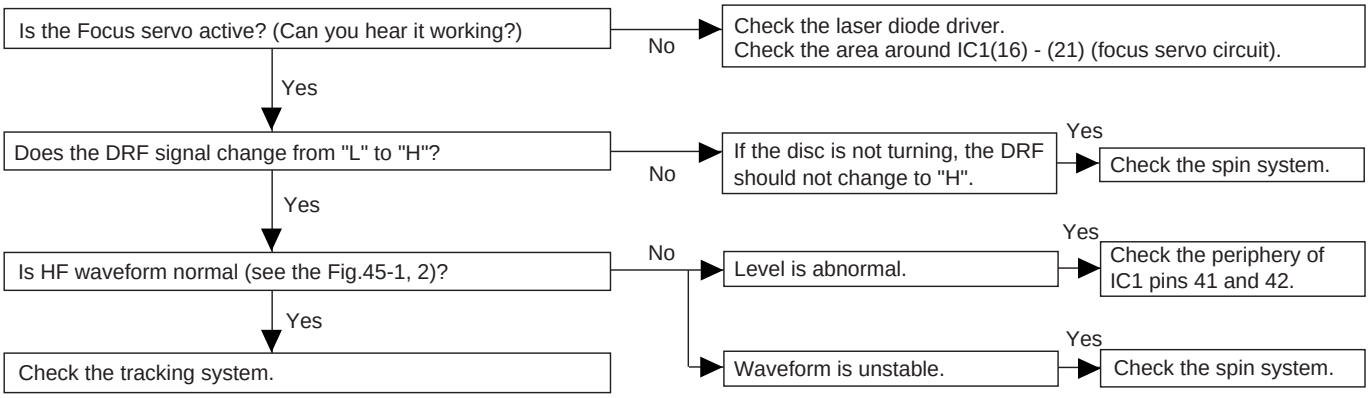
Check the IC1(50)(CLK) line, 4MHz.
Check the microcomputer data on pins (51)(CL), (52)(DAT) and (53)CE.



Focus search is performed two times when play operation is done without disc.

Figure 44

• Playback can only be performed when a disc is loaded.


Is the Focus servo active? (Can you hear it working?)
No
Check the laser diode driver.
Check the area around IC1(16) - (21) (focus servo circuit).
Yes
Does the DRF signal change from "L" to "H"?
No
If the disc is not turning, the DRF should not change to "H".
Yes
Check the spin system.
Yes
Is HF waveform normal (see the Fig.45-1, 2)?
No
Level is abnormal.
Yes
Check the periphery of IC1 pins 41 and 42.
Yes
Check the tracking system.
Waveform is unstable.
Yes
Check the spin system.

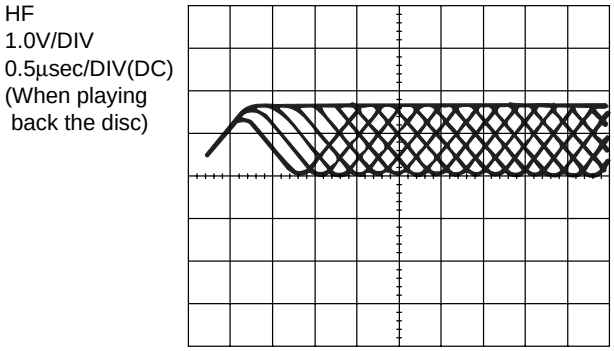


Figure 45-1

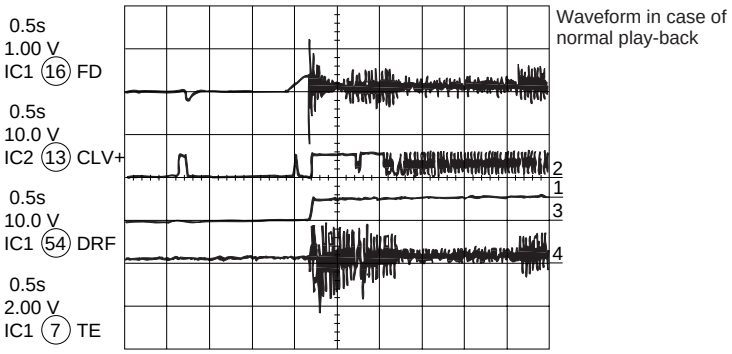
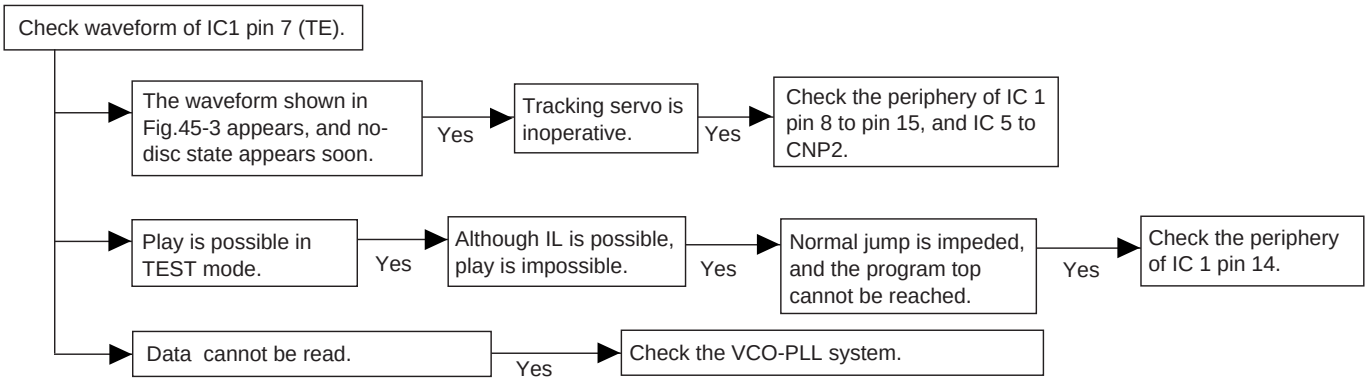


Figure 45-2

• Check the tracking system.


Check waveform of IC1 pin 7 (TE).
The waveform shown in Fig.45-3 appears, and no-disc state appears soon.
Yes
Tracking servo is inoperative.
Yes
Check the periphery of IC 1 pin 8 to pin 15, and IC 5 to CNP2.
Play is possible in TEST mode.
Yes
Although IL is possible, play is impossible.
Yes
Normal jump is impeded, and the program top cannot be reached.
Yes
Check the periphery of IC 1 pin 14.
Data cannot be read.
Yes
Check the VCO-PLL system.

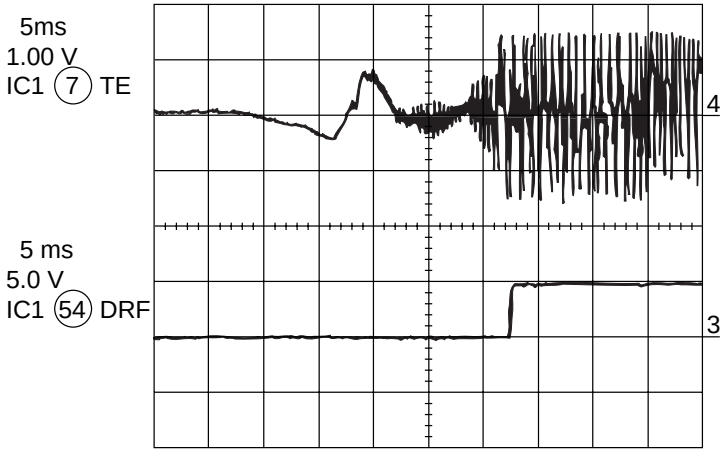


Figure 45-3

• Checking the spin system.

Play operation is performed without disc.

Yes

The turntable rotates a little. — Yes → The spin driver circuit is normal.

No

The turntable fails to rotate or rotates at high speed. — Yes → Check the periphery of IC1 pins 23 to 27, pin 39, and pin 40, IC2 pin 12 and pin 13, IC5 to CNP3.

• Checking the VCO-PLL system

Play operation is performed when disc exits.

Yes

Although HF waveform is normal, TOC data cannot be read. — Yes → Check PDO waveform (Fig. 46).

Abnormal

Check the IC1 pins 43 and 44, IC2 pins 3, 5, 7, 10, and 11.

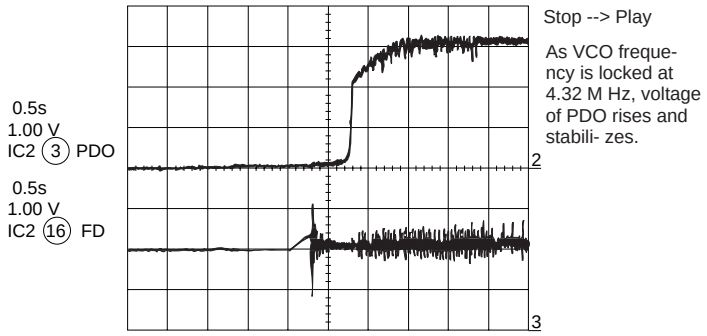


Figure 46

• Although HF waveform is normal and the time indication is normal, no sound is emitted.

Check IC 2 pin 48 (EFLG). — No → Usually, the number of pulses of flawless disc is 100 pulses/sec or less.

Yes

Check IC2 pins 37, 40.

Abnomal

Check IC 401 and POWER AMP IC 801.

FUNCTION TABLE OF IC

IC1 VHiLA9241M/-1: Servo Amp. (LA9241M) (1/2)

Pin No.	Port Name	Function
1	FIN2	Connection pin for photodiode of pickup. RF signal is generated through addition with FIN pin, and FE signal is generated through subtraction.
2	FIN1	Connection pin for photodiode of pickup.
3	E	Connection pin for photodiode of pickup. TE signal is generated through subtraction with F pin.
4	F	Connection pin for photodiode of pickup.
5	TB	Pin for input of DC component of TE signal.
6	TE-	Pin to connect gain setting resistor of TE signal to TE signal.
7	TE	TE signal output pin.
8	TESI	TES (Track error sense) comparator input pin. TE signal is band-passed and input.
9	SCI	Input pin for shock detection.
10	TH	Pin to set time constant of tracking gain.
11*	TA	TA amplifier output pin.
12	TD-	Pin to compose tracking phase compensation constant between TD and VR pins.
13	TD	Pin to set tracking phase compensation.
14	JP	Pin to set amplitude of tracking jump signal (kick pulse).
15	TO	Tracking control signal output pin.
16	FD	Focusing control signal output pin.
17	FD-	Pin to compose focusing phase compensation constant between FD and FA pins.
18	FA	Pin to compose focusing phase compensation constant between FD-/FA-pins.
19	FA-	Pin to compose focusing phase compensation constant between FA and FE pins.
20	FE	Output pin of FE signal.
21	FE-	Pin to connect gain setting resistor of FE signal across TE pin.
22	AGND	GND for analog signal.
23	NC	No connect.
24	SPI	Spindle amplifier input.
25	SPG	Pin to connect gain setting resistor in the 12cm mode of spindle.
26	SP-	Pin to connect spindle phase compensation constant together with SPD pin.
27	SPD	Spindle control signal output pin.
28	SLEQ	Pin to connect thread phase compensation constant.
29	SLD	Thread control signal output pin.
30	SL-	Input pin of thread feed signal from micro computer.
31	SL+	Input pin of thread feed signal from micro computer.
32	JP-	Input pin of tracking jump signal from DSP.
33	JP+	Input pin of tracking jump signal from DSP.
34	TGL	Input pin of tracking gain control signal from DSP. TGL = Gain low at "H"
35	TOFF	Input pin of tracking off control signal from DSP. TOFF = Off at "H"
36	TES	Output pin of TES signal to DSP.
37	HFL	(HIGH FREQUENCY LEVEL) is used to judge whether main beam is positioned on the bit or on the mirror.
38	SLOF	Thread servo off control input pin.
39	CV-	Pin to input CLV error signal from DSP.
40	CV+	Pin to input CLV error signal from DSP.
41	RFSM	RF output pin.
42	RFS-	Pin to set gain of RF and set 3T compensation constant together with RFSM pin.
43	SLC	(SLICE LEVEL CONTROL) is the output pin to control of the level of the data slice with RF waveform DSP.
44	SLI	Input pin to control the level of data slice with DSP.
45	DGND	GND pin in the digital system.
46	FSC	Output pin for focus search smoothening capacitor.
47	TBC	(Tracking Balance Control) Pin to set EF balance variable range.
48*	NC	No connect.
49	DEF	Defect detection output pin of disk.
50	CLK	Reference clock input pin. 4.23MHz of DSP is input.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC1 VHiLA9241M/-1:Servo Amp.(LA9241M) (2/2)

Pin No.	Port Name	Function
51	CL	Micro computer command clock input pin.
52	DAT	Micro computer command data input pin.
53	CE	Micro computer command chip enable input pin.
54	DRF	(DETECT RF) RF level detection output.
55	FSS	(Focus Serch Select) Pin to switch focus search mode. (± search/+ search for reference voltage)
56	VCC2	VCC pin for servo system and digital system.
57	REFI	Pin to connect pass control for reference voltage.
58	VR	Reference voltage output pin.
59	LF2	Pin to set defect detection time constant of disk.
60	PH1	Pin to connect capacitor for peak hold of RF signal.
61	BH1	Pin to connect capacitor for bottom hold of RF signal.
62	LDD	APC circuit output pin.
63	LDS	APC circuit output pin.
64	VCC1	RF system VCC pin.

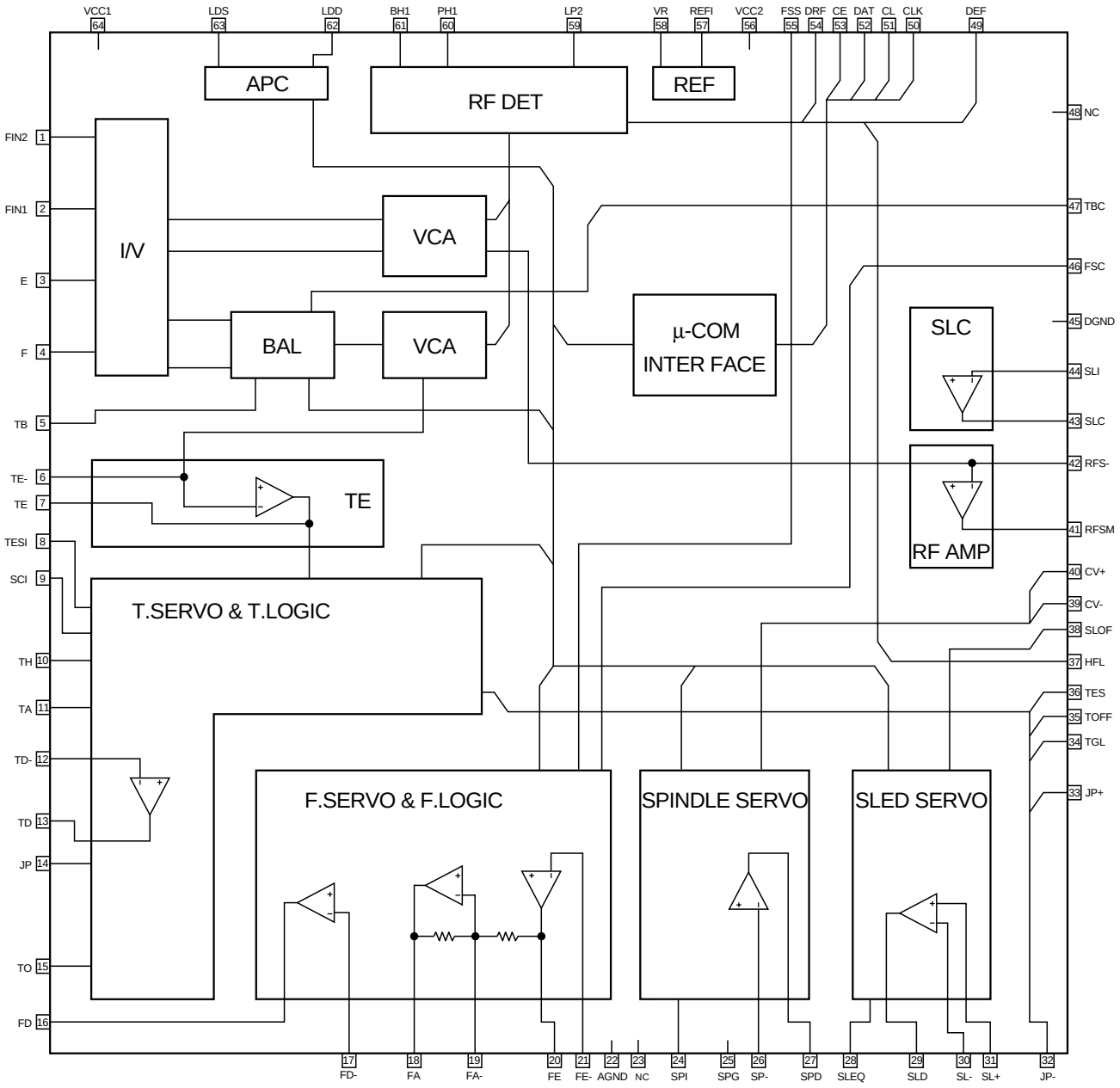


Figure 48 BLOCK DIAGRAM OF IC

IC2 VHiLC78622N-1: Servo/Signal Control (LC78622NE) (1/2)

Pin No.	Terminal Name	Input/Output	Function		
1	DEFI	Input	Defect detection signal (DFF) input terminal. (When this terminal is not used, connect it to 0V.)		
2	TAI	Input	For PLL	Input terminal for test. Pull-down resistor built in. Be sure to connect this terminal to 0V.	
3	PDO	Output		Phase comparison output terminal for external VCO control.	
4	VVSS	—		Grounding terminal for built-in VCO. Be sure to connect this terminal to 0V.	
5	ISET	Input		Resistor connection terminal for adjustment of PDO output current.	
6	VVDD	—		Power terminal for built-in VCO.	
7	FR	Input		For VCO frequency range adjustment.	
8	VSS	—	Digital system grounding terminal. Be sure to connect this terminal to 0V.		
9	EFMO	Output	For slice level control	EFM signal output terminal.	
10	EFMIN	Input		EFM signal input terminal.	
11	TEST2	Input	Input terminal for test. Pull-down resistor built-in. Be sure to connect this terminal to 0V.		
12	CLV+	Outout	Output for disc motor control. 3-value output is enabled according to command.		
13	CLV-	Output	Output for disc motor control. 3-value output is enabled according to command.		
14	V/$\overline{P}$	Output	Rough servo/phase control automatic selection monitor output terminal. "H": Rough servo, "L": Phase servo		
15	HLF	Intput	Track detection signal input terminal. Schmidt input.		
16	TES	Input	Tracking error signal input terminal. Schmidt input.		
17	TOFF	Output	Tracking OFF output terminal.		
18	TGL	Output	Output terminal for tracking gain selection. "L": Gain raising.		
19	JP+	Output	Output for track jump control. 3-value output is enabled according to command.		
20	JP-	Output	Output for track jump control. 3-value output is enabled according to command.		
21*	PCK	Output	Clock monitor terminal for EFM data play-back. Phase lock: 4.3218 MHz.		
22*	FSEQ	Output	Sync signal detection output terminal. When the sync signal detected from the EFM signal coincides with the internally generated sync signal: "H"		
23	VDD	—	Digital system power terminal.		
24	CONT1	Input/Output	General-use input/output terminal 1.	Control with serial data command from microcomputer. When this terminal is not used, set it as an input terminal and connect to 0V or set it as an output terminal and open.	
25	CONT2	Input/Output	General-use input/output terminal 2.		
26	CONT3	Input/Output	General-use input/output terminal 3.		
27	CONT4	Input/Output	General-use input/output terminal 4.		
28*	CONT5	Input/Output	General-use input/output terminal 5.		
29*	EMPH/CONT6	Output	Deemphasis monitor terminal. "H": Deemphasis disc play-back. General-use output terminal 6.		
30*	C2F	Output	C2 flag output terminal.		
31	DOUT	Output	Digital OUT output terminal. (EIAJ format)		
32*	TEST3	Input	Input terminal for test. Pull-down resistor built-in. Be sure to connect this terminal to 0V.		
33	TEST4	Input	Input terminal for test. Pull-down resistor built-in. Be sure to connect this terminal to 0V.		
34	PCCL	Input	General-use input/output command recognition terminal. Pull-down resistor built in. When this terminal is used for the same function as that of LC78622E, open or connect this terminal to 0V. H: Only the general-use input/output port command is controllable. L: All command controls are enabled.		
35*	MUTEL/CONT7	Output	L channel 1-bit DAC	Mute output terminal for L channel. General-use output terminal 7.	
36	LVDD	—		Power terminal for L channel.	
37	LCHO	Output		L channel output terminal.	
38	LVSS	—		Grounding terminal for L channel. Be sure to connect this terminal to 0V.	
39	RVSS	—	R channel 1-bit DAC	Grounding terminal for R channel. Be sure to connect this terminal to 0V.	
40	RCHO	Output		R channel output terminal.	
41	RVDD	—		Power terminal for R channel.	
42*	MUTER/CONT8	Output		Mute output terminal for R channel. General-use output terminal 8.	
43	XVDD	—	Power terminal for crystal oscillation.		
44	XOUT	Output	16.9344 MHz crystal oscillator connection terminal.		
45	XIN	Input	16.9344 MHz crystal oscillator connection terminal.		
46	XVSS	—	Grounding terminal for crystal oscillation. Be sure to connect this terminal to 0V.		

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC2 VHiLC78622N-1: Servo/Signal Control (LC78622NE) (2/2)

Pin No.	Terminal Name	Input/Output	Function
47*	SBSY	Output	Sub-code clock sync signal output terminal.
48*	EFLG	Output	C1, C2, single, double correction monitor terminal.
49*	PW	Output	Sub-code P, Q, R, S, T, U, and W output terminal.
50*	SFSY	Output	Sub-code frame sync signal output terminal. Falling occurs when the sub-code is in standby state.
51	SBCK	Input	Sub-code read clock input terminal. Schmidt input (When this terminal is not used, connect it to 0V.)
52*	FSX	Output	7.35 kHz sync signal (frequency-divided from crystal oscillation) output terminal.
53	WRQ	Output	Sub-code Q output standby output terminal.
54	RWC	Input	Read/Write control input terminal. Schmidt input.
55	SQOUT	Output	Sub-code Q output terminal.
56	COIN	Input	Command input terminal from microcomputer.
57	$\overline{\text{CQCK}}$	Input	Command input taking-in clock or sub-code taking-out (from SQOUT) clock input terminal. Schmidt input
58	$\overline{\text{RES}}$	Input	LSI resetting input terminal. When power is turned on, once "L" is set.
59*	TEST11	Output	Output terminal for test. Use this terminal in open state (usually "L" output).
60*	16M	Output	16.9344 MHz output terminal.
61	4.2M	Output	4.2336 MHz output terminal.
62	TEST5	Input	Input terminal for test. Pull-down resistor built-in. Be sure to connect this terminal to 0V.
63	$\overline{\text{CS}}$	Input	Chip selection input terminal. Pull-down resistor built-in. In noncontrol state connect this terminal to 0V.
64	TEST1	Input	Input terminal for test. Pull-down resistor is not provided. Be sure to connect this terminal to 0V.

Note: The same potential must be supplied to the power terminals (VDD, VVDD, LVDD, RVDD, XVDD).

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

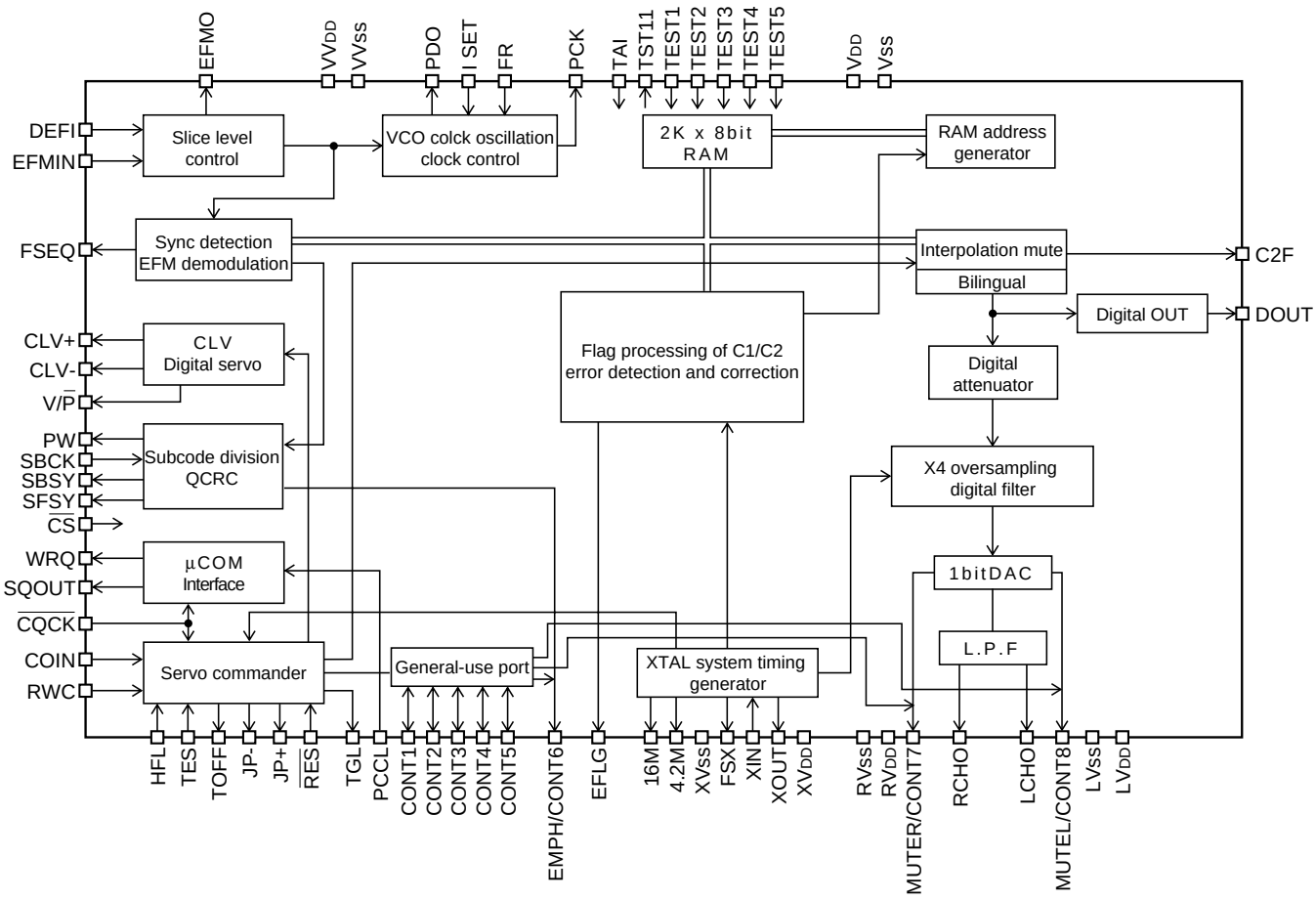
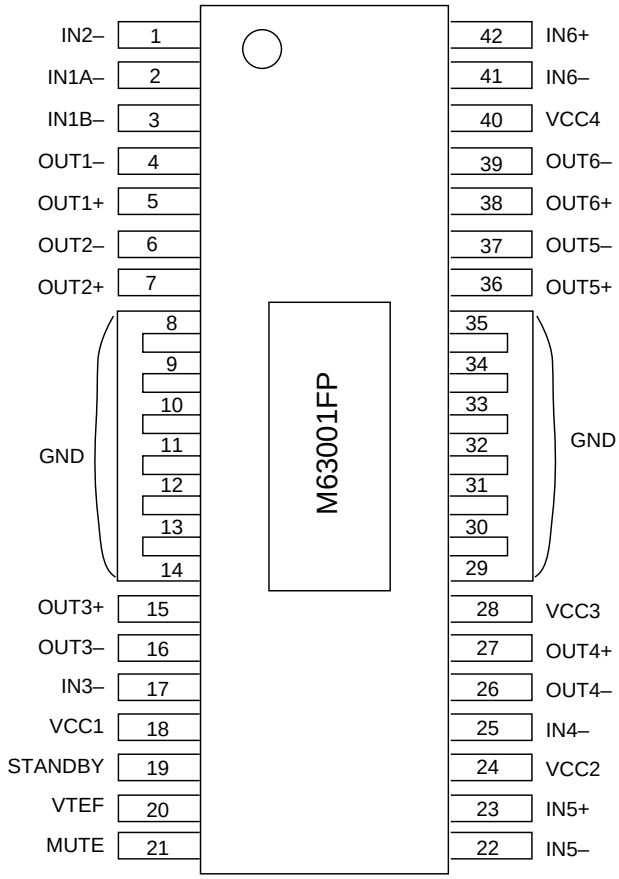


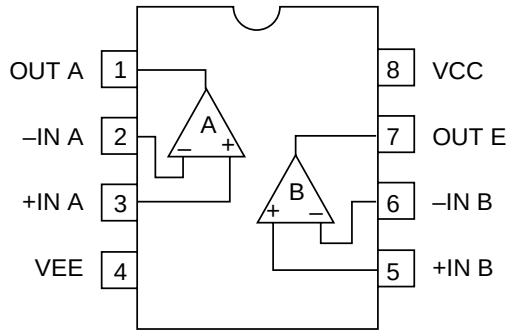
Figure 50 BLOCK DIAGRAM OF IC

IC3 VHiM63001FP-1: Focus/Tracking/Spin/Slide Driver (M63001FP)

Pin No.	Terminal Name	Function
1	IN2-	CH2 inverted input.
2	IN1A-	CH1 inverted input.
3	IN1B-	CH1 output offset control.
4	OUT1-	CH1 inverted output.
5	OUT1+	CH1 non-inverted output.
6	OUT2-	CH2 inverted output.
7	OUT2+	CH2 non-inverted output.
8-14	GND	GND
15	OUT3+	CH3 non-inverted output.
16	OUT3-	CH3 inverted output.
17	IN3-	CH3 inverted input.
18	VCC1	Power supply 1 (CH1, CH2, CH3)
19	STANDBY	STANDBY signal input.
20	VRFE	CH1-CH4 Reference voltage input.
21	MUTE	Mute signal input (CH6).
22	IN5-	CH5 inverted input.
23	IN5+	CH5 non-inverted input.
24	VCC2	Power supply 2 (CH4).
25	IN4-	CH4 inverted input.
26	OUT4-	CH4 inverted output.
27	OUT4+	CH4 non-inverted output.
28	VCC3	Power supply 3 (CH5).
29-35	GND	GND
36	OUT5+	CH5 non-inverted output.
37	OUT5-	CH5 inverted output.
38	OUT6+	CH6 non-inverted output.
39	OUT6-	CH6 inverted output.
40	VCC4	Power supply 4 (CH6).
41	IN6-	CH6 inverted input.
42	IN6+	CH6 non-inverted input.



IC562,563 VHiKiA4558P-1: (KIA4558P)



IC601 VHiM62439SP-1: Audio Processor (M62439SP)

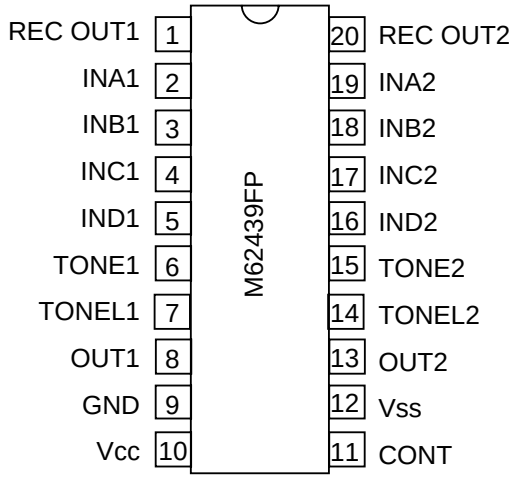


Figure 51 BLOCK DIAGRAM OF IC

IC701 RH-iX0280AWZZ:System Microcomputer (IX0280AW) (1/2)

Pin No.	Port Name	Terminal Name	Input/Output	Function
1	VDD	VDD	—	(+) POWER SUPPLY
2*	P37	ENA	Output	DOLBY PROLOGIC ENABLE TERMINAL
3	P36	DO	Input	DATA INPUT
4	P35	DI	Output	DATA OUTPUT
5	P34	CE	Output	CE OUTPUT
6	P33	CLK	Output	CLOCK OUTPUT
7,8*	P32, P31	LCK1, LCK2	Output	
9	P30	RWC	Output	CD DSP READ WRITE CONTROL
10	RESET	RESET	Input	RESET
11	X2	X2	Output	MAIN CLOCK
12	X1	X1	Input	MAIN CLOCK
13	Vpp	VPP	—	POWER SUPPLY TERMINAL
14*	XT2	XT2	—	OPEN
15	P04	WRQ	Input	CD DSP WRITE REQUEST
16	VDD	VDD	—	(+) POWER SUPPLY
17	P27	PCCL	Output	CD DSP PCCL
18	P26	COIN	Outout	CD DSP COMAND
19	P25	SQOUT	Input	CD DSP CODE Q OUT
20	P24	CQCK	Output	CD DSP CLOCK
21	P23	DSP RES	Output	CD DSP RESET
22	P22	FRF (DRF)	Input	CD RF LEVEL DETECTION
23	P21	SLD+	Output	CD SLIDE MOTOR +
24	P20	SLD-	Output	CD SLIDE MOTOR -
25	AVss	AVSS	—	ANALOG GROUND
26	ANI7	SPEANA3	Input	SPEANA DATA INPUT 16 KHz
27	ANI6	SPEANA2	Input	SPEANA DATA INPUT 1 KHz
28	ANI5	SPEANA1	Input	SPEANA DATA INPUT 63 Hz
29*	ANI4	TUN SM	Input	TUNER SIGNAL METER INPUT
30	ANI3	T2 RUN	Input	TAPE2 RUN PULSE INPUT
31-33	ANI2-ANI0	KEYIN3-KEYIN1	Input	KEY INPUT
34	AVDD	AVDD	—	ANALOG VDD
35	AVREF	AVREF	—	ANALOG REF VOLTAGE
36	P03	PUIN SW	Input	CD PUIN SWITCH
37	P02	O/C SW	Input	CD OPEN/CLOSE SWITCH
38	INTP1	SYS STOP	Input	SYSTEM STOP INPUT
39	INTP0	REMOCON	Input	REMOCON INPUT
40	Vss	VSS	—	GROUND VOLTAGE
41	P74	DNO SW	Input	CD DISC NO. SWITCH
42	P73	U/D SW	Input	CD UP/DOWN SWITCH
43	P72	TIMER LED	Output	TIMER LED CONTROL
44	P71	T_SOL	Output	TAPE SOLENOID CONTROL
45	P70	T_MOT	Output	TAPE MOTOR CONTROL
46	VDD	VDD	—	(+) POWER SUPPLY
47	P127	CAM SW	Input	TAPE CAM SWITCH
48	P126	TIFAS	Input	TAPE1 FULL AUTOSTOP PULSE INPUT
49	P125	FPA	Input	TAPE2 A-SIDE FULL PROOF
50	P124	H/P	Input	HEADPHONE INPUT
51	P123	AC RLY_CONT	Output	AC RELAY CONTROL
52	P122	REC/PLAY	Output	TAPE REC/PLAY CHANGE
53	P121	T_BIAS	Output	TAPE Record bias control
54	P120	T_T1T2	Output	TAPE T1/T2 CHANGE
55	P117	DISTO	Input	DISTINATION INPUT

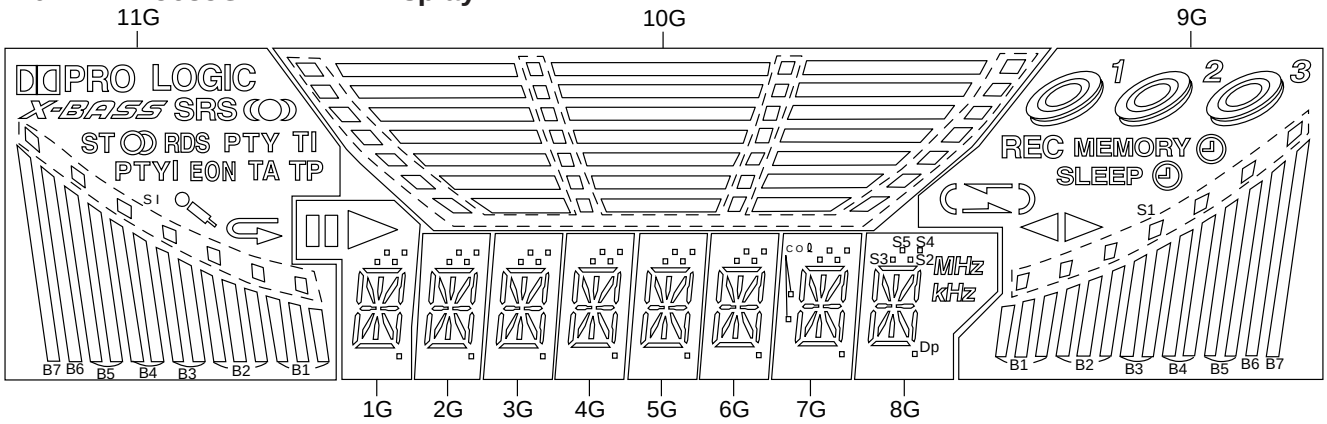
In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

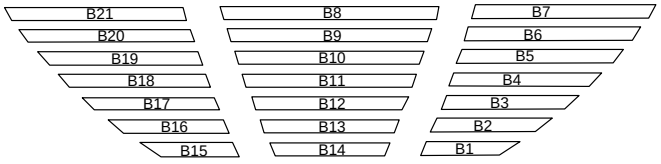
IC701 RH-iX0280AWZZ:System Microcomputer (IX0280AW) (2/2)

Pin No.	Port Name	Terminal Name	Input/Output	Function
56	P116	KEY JOG A	Input	KEY JOG INPUT A
57	P115	KEY JOG B	Input	KEY JOG INPUT B
58	P114	S MUTE	Output	SYSTEM MUTE
59*	P113	C MUTE	Output	CENTER MUTE
60*	P112	SR MUTE	Output	SURROUND MUTE
61	P111	HI-CUT	Output	HI-CUT OUTPUT
62*	P110	POWER	Output	POWER OUTPUT
63	P107	SPRLY	Output	SPEAKER OUTPUT RELAY CONTROL
64	P106	SP_DET	Input	SPEAKER OUTPUT DETECTION
65	P105	SPN_P	Input	TUNER SPAN CHANGE
66*	P104	DISTOUT	Output	DISTINATION OUTPUT
67	P103/FIP32	DIAT4/P22	Input/Output	FL DISPLAY SEGMENT DRIVER DISTINATION INPUT
68	P102/FIP31	DIAT3/P21	Input/Output	FL DISPLAY SEGMENT DRIVER DISTINATION INPUT
69	P101/FIP30	DIAT2/P20/P15	Input/Output	FL DISPLAY SEGMENT DRIVER DISTINATION INPUT
70	P100/FIP29	DIAT1/P19/P16	Input/Output	FL DISPLAY SEGMENT DRIVER DISTINATION INPUT
71-78	FIP28-FIP21	P18/P13-P11/P7	Output	FL DISPLAY SEGMENT DRIVER
79	VLOAD	VLOAD	—	FL DRIVER (–) POWER SUPP, –30V
80-100	FIP20-FIP0	P10/P6-G1/9G	Output	FL DISPLAY SEGMENT DRIVER

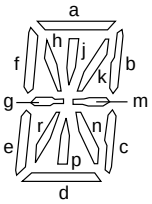
In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

FL701 VVKBJ685GNK-1: FL Display





[10G]



[1G~8G]

ANODE CONNECTION

	1G	2G~6G	7G	8G	9G	10G	11G
P1	Dp	Dp	Dp	Dp	S1	S1	S1
P2	d	d	d	d	B1	B1	B1
P3	c	c	c	c	B2	B2	B2
P4	n	n	n	n	B3	B3	B3
P5	p	p	p	p	B4	B4	B4
P6	r	r	r	r	B5	B5	B5
P7	e	e	e	e	B6	B6	B6
P8	m	m	m	m	B7	B7	B7
P9	g	g	g	g	1	B8	PRO LOGIC
P10	–	–	col	–	2	B9	X-BASS
P11	b	b	b	b	3	B10	SRS
P12	k	k	k	k	REC	B11	ST
P13	j	j	j	j	MEMORY	B12	
P14	h	h	h	h		B13	RDS
P15	f	f	f	f	(LOWER)	B14	PTY
P16	a	a	a	a	SLEEP	B15	TI
P17	S2	S2	S2	S2		B16	TP
P18	S3	S3	S3	S3		B17	TA
P19	S4	S4	S4	S4		B18	PTYI
P20	S5	S5	S5	S5		B19	EON
P21		–	–	MHz		B20	
P22		–	–	kHz	–	B21	

Figure 54 FL DISPLAY

SHARP PARTS GUIDE

MODEL CD-C622

CD-C622 mini component system consisting of CD-C622 mini component system, CP-C622 and rear (GBOXS0021AWM1) speaker system.

CD-C2900

CD-C2900 mini component system consisting of CD-C2900 mini component system and CP-C2900 speaker system.

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following information.

1. MODEL NUMBER
2. REF. No.
3. PART NO.
4. DESCRIPTION

★ MARK: SPARE PARTS-DELIVERY SECTION

For U.S.A. only

Contact your nearest SHARP Parts Distributor to order.

For location of SHARP Parts Distributor,
Please call Toll-Free;
1-800-BE-SHARP

Explanation of capacitors/resistors parts codes

Capacitors

VCC ..... Ceramic type
VCK ..... Ceramic type
VCT ..... Semiconductor type
VC • • MF ..... Cylindrical type (without lead wire)
VC • • MN ..... Cylindrical type (without lead wire)
VC • • TV ..... Square type (without lead wire)
VC • • TQ ..... Square type (without lead wire)
VC • • CY ..... Square type (without lead wire)
VC • • CZ ..... Square type (without lead wire)
VC • • • • • • • • • J .. The 13th character represents capacity difference.
("J" ±5%, "K" ±10%, "M" ±20%, "N" ±30%,
"C" ±0.25 pF, "D" ±0.5 pF, "Z" +80-20%.)

If there are no indications for the electrolytic capacitors, error is ±20%.

Resistors

VRD ..... Carbon-film type
VRS ..... Carbon-film type
VRN ..... Metal-film type
VR • • MF ..... Cylindrical type (without lead wire)
VR • • MN ..... Cylindrical type (without lead wire)
VR • • TV ..... Square type (without lead wire)
VR • • TQ ..... Square type (without lead wire)
VR • • CY ..... Square type (without lead wire)
VR • • CZ ..... Square type (without lead wire)
VR • • • • • • • • • J .. The 13th character represents error.
("J" ±5%, "F" ±1%, "D" ±0.5%.)

If there are no indications for other parts, the resistors are ±5% carbon-film type.

NOTE:
Parts marked with "⚠" are important for maintaining the safety of the set.
Be sure to replace parts with specified ones for maintaining the safety and performance of the set.

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION

CD-C622/C2900

INTEGRATED CIRCUITS

IC1	VHILA9241M/-1	J	AS	Servo Amp.,LA9241M
IC2	VHILC78622N-1	J	AY	Servo/Signal Control, LC78622NE
IC3	VHIM63001FP-1	J	AX	Focus/Tracking/Spin/Slide Driver,M63001FP
IC101	VHIAN7345K/-1	J	AM	Playback and Record/Playback Amp.,AN7345K
IC301	VHITA7358AP-1	J	AG	FM Front End,TA7358AP
IC302	VHILC72131/-1	J	AP	PLL (Tuner),LC72131
IC303	VHILA1805//-1	J	AM	FM/AF IF MPX.,LA1805
IC562,563	VHIKIA4558P-1	J	AC	Ope Amp.,KIA4558P
IC601	VHIM62439SP-1	J	AG	Audio Processor,M62439SP
IC701	RH-IX0280AWZZ	J	AQ	System Control Microcomputer, IX0280AW
IC703	VHIBU2092F/-1	J	AM	Input/Output Expander,BU2092F
IC704	VHIKIA7042AP1	J	AC	Reset,KIA7042AP
IC901	VHISTK4074B-1	J	AP	Power Amp.,STK4074B

TRANSISTORS

Q1	VS2SA1318//-1	J	AC	Silicon,PNP,2SA1318
Q51	VSKRC102M//-1	J	AC	Digital,NPN,KRC102 M
Q52	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
Q103~106	VSKTC3200GR-1	J	AC	Silicon,NPN,KTC3200 GR
Q107,108	VS2SC3331//-1	J	AB	Silicon,NPN,2SC3331
Q109	VS2SA1318//-1	J	AC	Silicon,PNP,2SA1318
Q110,111	VSKRC104M//-1	J	AC	Digital,NPN,KRC104 M
Q113,114	VS2SC3331//-1	J	AB	Silicon,NPN,2SC3331
Q121,122	VS2SC3331//-1	J	AB	Silicon,NPN,2SC3331
Q124	VS2SA1015GR-1	J	AB	Silicon,PNP,2SA1015 GR
Q126	VSKRC104M//-1	J	AC	Digital,NPN,KRC104 M
Q128	VSKTC3203Y/-1	J	AC	Silicon,NPN,KTC3203 Y
Q302	VS2SC535-C/-1	J	AC	Silicon,NPN,2SC535 C
Q343	VSKRA109M//-1	J	AC	Digital,PNP,KRA109 M
Q344	VSKRA102M//-1	J	AC	Digital,PNP,KRA102 M
Q350	VS2SC3331//-1	J	AB	Silicon,NPN,2SC3331
Q601~604	VS2SC3331//-1	J	AB	Silicon,NPN,2SC3331
Q702	VSKTA1273Y/-1	J	AE	Silicon,PNP,KTA1273 Y
Q703	VSKTA1271Y/-1	J	AC	Silicon,PNP,KTA1271 Y
Q704	VSKRC102M//-1	J	AC	Digital,NPN,KRC102 M
Q705~707	VS2SC3331//-1	J	AB	Silicon,NPN,2SC3331
Q801	VSKTA1274Y/-1	J	AE	Silicon,PNP,KTA1274 Y
Q802	VSKRC107M//-1	J	AC	Digital,NPN,KRC107 M
Q803	VHIAN78L05/-1	J	AE	Constant Voltage Regulator, AN78L05
Q821	VHIAN78L05/-1	J	AE	Constant Voltage Regulator, AN78L05
Q822	VHIKIA7806P-1	J	AG	Voltage Regulator,KIA7806P
Q823	VSKTD2058Y/-1	J	AF	Silicon,NPN,KTD2058 Y
Q824	VHIKIA7812P-1	J	AE	Voltage Regulator,KIA7812P
Q904~907	VS2SC3331//-1	J	AB	Silicon,NPN,2SC3331
Q908	VSKRC107M//-1	J	AC	Digital,NPN,KRC107 M
Q960	VS2SC3331//-1	J	AB	Silicon,NPN,2SC3331

DIODES

D1	VHD1SS133//-1	J	AA	Silicon,1SS133
D81,82	VHD1SS133//-1	J	AA	Silicon,1SS133
D91~93	VHD1SS133//-1	J	AA	Silicon,1SS133
D301~305	VHD1SS133//-1	J	AA	Silicon,1SS133
D342	VHD1SS133//-1	J	AA	Silicon,1SS133
D551	VHD1SS133//-1	J	AA	Silicon,1SS133
D554~556	VHD1SS133//-1	J	AA	Silicon,1SS133
D601,602	VHD1SS133//-1	J	AA	Silicon,1SS133
D716~723	VHD1SS133//-1	J	AA	Silicon,1SS133
D801	VHDTS6B04GM-1	J	AP	Silicon,TS6B04GM
D802	VHD1SS133//-1	J	AA	Silicon,1SS133
D803~809	VHD1N4004S/-1	J	AB	Silicon,1N4004S
D810~813	VHD1SS133//-1	J	AA	Silicon,1SS133
D815,816	VHD1SS133//-1	J	AA	Silicon,1SS133
D818	VHD1SS133//-1	J	AA	Silicon,1SS133
D820,821	VHD1SS133//-1	J	AA	Silicon,1SS133
D832,833	VHD1SS133//-1	J	AA	Silicon,1SS133
D903,904	VHD1SS133//-1	J	AA	Silicon,1SS133
D906,907	VHD1SS133//-1	J	AA	Silicon,1SS133
D960~962	VHD1SS133//-1	J	AA	Silicon,1SS133
LED701	VHPL1154GT4-1	J	AB	LED,Green,L1154GT4
LED702	VHPSLI342YCB1	J	AC	LED,Orange,SLI342YCB
LED703	VHPSLI342DCB1	J	AC	LED,Yellow,SLI342DCB
LED704	VHPSLI342UCB1	J	AC	LED,Red,SLI342UCB
LED705	VHPSLI342DCB1	J	AC	LED,Yellow,SLI342DCB
LED706	VHPSLI342YCB1	J	AC	LED,Orange,SLI342YCB
LED707	VHPL1154GT4-1	J	AB	LED,Green,L1154GT4
LED716,717	VHPSLI342YCJ1	J	AC	LED,Yellow,SLI342YCJ
LED722	VHPSLI342UCJ1	J	AC	LED,Red,SLI342UCJ
VD302,303	VHCSVC211C/-1	J	AG	Silicon,SVC211C,Variable Cap
VD331	VHCSVC348S/-1	J	AK	Variable Capacitance,SVC348S
ZD61	VHEMTZJ5R6B-1	J	AD	Zener,5.6V,MTZJ5.6B
ZD351	VHEMTZJ5R1B-1	J	AC	Zener,5.1V,MTZJ5.1B
ZD551	VHEMTZJ6R2C-1	J	AC	Zener,6.2V,MTZJ6.2C
ZD601,602	VHEMTZJ2R4B-1	J	AB	Zener,2.4V,MTZJ2.4B
ZD801	VHEMTZJ6R2A-1	J	AA	Zener,6.2V,MTZJ6.2A
ZD802	VHEMTZJ300B-1	J	AB	Zener,30V,MTZJ30B

FILTERS

CF301	RFILF0124AFZZ	J	AD	FM IF,10.7 MHz
CF351	92LFILTA1768A	J	AE	AM IF

TRANSFORMERS

T301	RCILI0017AWZZ	J	AB	FM IF
T331	RCILA0052AWZZ	J	AE	AM Antenna
T333	RCILB0058AWZZ	J	AC	OSC,AM
T351	RCILI0015AWZZ	J	AE	AM IF
T352	RCILI0016AWZZ	J	AC	FM Detection
⚠ T801	RTRNP0241AWZZ	J	BE	Power [622]
⚠ T801	RTRNP0244AWZZ	J	BE	Power [2900]
⚠ T802	RTRNP0239AWZZ	J	AP	Power

COILS

L61	VP-XHR82K0000	J	AC	0.82 µH,Choke
L99	VP-DH2R2K0000	J	AB	2.2 mmH,Peaking
L103	VP-DH101K0000	J	AB	100 µH,Choke
L104	VP-MK331K0000	J	AB	330 µH,Choke
L301	RCILF0001AWZZ	J	AC	FM Band Pass Filter
L302	RCILR0029AWZZ	J	AA	FM RF
L303	RCILB0060AWZZ	J	AC	OSC,FM
L343	VP-DH101K0000	J	AB	100 µH,Choke
L702	VP-DH101K0000	J	AB	100 µH,Choke

VARIABLE RESISTOR

VR351	RVR-M0025AWZZ	J	AC	6.8 kohms (B),Semi-VR [VCO]

VIBRATORS

X352	RCRSP0002AWZZ	J	AH	Crystal,4.5 MHz
XL1	RCRSP0005AWZZ	J	AF	Crystal,16.934 MHz
XL701	RCRSP0003AWZZ	J	AH	Crystal,4.19 MHz

CAPACITORS

C1	VCEAZA1CW476M	J	AB	47 µF,16V,Electrolytic
C2	VCKYTV1HB103K	J	AA	0.01 µF,50V
C3	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C4	VCEAZA1HW104M	J	AB	0.1 µF,50V,Electrolytic
C5,6	VCTYPA1CX333K	J	AA	0.033 µF,16V
C7	VCEAZA1HW104M	J	AB	0.1 µF,50V,Electrolytic
C8	VCTYPA1CX683K	J	AA	0.068 µF,16V
C9	VCTYPA1CX473K	J	AA	0.047 µF,16V
C10	VCCSTV1HL181J	J	AA	180 pF,50V
C11,12	VCTYPA1CX104K	J	AB	0.1 µF,16V
C13	VCKYTV1HB331K	J	AA	330 pF,50V
C14,15	VCKYTV1HB103K	J	AA	0.01 µF,50V
C16	VCKYTV1HB472K	J	AA	0.0047 µF,50V
C17	VCKYTV1HB102K	J	AA	0.001 µF,50V
C18	VCEAZA1HW474M	J	AB	0.47 µF,50V,Electrolytic
C19	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C20	VCEAZA1CW476M	J	AB	47 µF,16V,Electrolytic
C21	VCKYTV1HB332K	J	AA	0.0033 µF,50V
C22	VCCSPA1HL221J	J	AA	220 pF,50V
C23	VCKYTV1HB272K	J	AA	0.0027 µF,50V
C24	VCCSTV1HL2R2C	J		2.2 pF,50V
C25	VCCSTV1HL270J	J	AA	27 pF,50V
C26	VCTYPA1CX333K	J	AA	0.033 µF,16V
C27	VCKYTV1HB102K	J	AA	0.001 µF,50V
C28	VCTYPA1CX104K	J	AB	0.1 µF,16V

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
C29	VCEAZA1HW475M	J	AB	4.7 µF,50V,Electrolytic
C30	VCEAZA1HW104M	J	AB	0.1 µF,50V,Electrolytic
C31	VCEAZA0JW227M	J	AC	220 µF,6.3V,Electrolytic
C32	VCKYTV1HB103K	J	AA	0.01 µF,50V
C33	VCEAZA1HW474M	J	AB	0.47 µF,50V,Electrolytic
C34	VCEAZA1HW334M	J	AB	0.33 µF,50V,Electrolytic
C35	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C36	VCEAZA1CW107M	J	AC	100 µF,16V,Electrolytic
C37	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C38	VCKYTV1HB103K	J	AA	0.01 µF,50V
C39,40	VCTYPA1CX473K	J	AA	0.047 µF,16V
C41	VCCSPA1HL120J	J	AA	12 pF,50V
C42	VCCSPA1HL150J	J	AA	15 pF,50V
C43	VCEAZA0JW337M	J	AC	330 µF,6.3V,Electrolytic
C44~47	VCCCTV1HH101J	J	AA	100 pF (CH),50V
C48	VCCSPA1HL101J	J	AA	100 pF,50V
C49	VCCCTV1HH101J	J	AA	100 pF (CH),50V
C50	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C51,52	VCEAZA1CW107M	J	AC	100 µF,16V,Electrolytic
C54	VCKYTV1HB102K	J	AA	0.001 µF,50V
C55	VCEAZA1CW107M	J	AC	100 µF,16V,Electrolytic
C56	VCKYTV1EF223Z	J	AA	0.022 µF,25V
C57	VCKYBT1HB102K	J	AA	0.001 µF,50V
C71,72	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C73,74	VCKYTV1HB221K	J	AA	220 pF,50V
C75	VCKYTV1HB102K	J	AA	0.001 µF,50V
C76	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C77	VCEAZA1CW107M	J	AC	100 µF,16V,Electrolytic
C82	VCEAZA1CW107M	J	AC	100 µF,16V,Electrolytic
C83	VCTYBT1EF223Z	J	AA	0.022 µF,25V
C98	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C99	VCEAZA1AW107M	J	AB	100 µF,10V,Electrolytic
C101,102	VCKYMN1HB102K	J	AA	0.001 µF,50V
C105	VCKYBT1HB181K	J	AA	180 pF,50V
C106	VCKYMN1HB181K	J	AA	180 pF,50V
C107,108	VCKYMN1HB102K	J	AA	0.001 µF,50V
C109	VCKZPA1HF473Z	J	AA	0.047 µF,50V
C111~114	VCKYMN1HB331K	J	AA	330 pF,50V
C115,116	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C117,118	VCTYPA1EX333K	J	AA	0.033 µF,25V
C119,120	VCKYMN1HB561K	J	AA	560 pF,50V
C121,122	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C127	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C128	VCEAZA1HW335M	J	AB	3.3 µF,50V,Electrolytic
C129,130	VCKYMN1HB471K	J	AA	470 pF,50V
C131,132	VCKYMN1HB102K	J	AA	0.001 µF,50V
C133,134	VCEAZA1EW226M	J	AB	22 µF,25V,Electrolytic
C135,136	VCTYPA1CX683K	J	AA	0.068 µF,16V
C139,140	VCTYMN1CX332K	J	AA	0.0033 µF,16V
C141,142	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C145	VCEAZA1EW226M	J	AB	22 µF,25V,Electrolytic
C146	VCEAZA1AW227M	J	AC	220 µF,10V,Electrolytic
C150	VCQPKA2AA392J	J	AB	0.0039 µF,100V,Polypropylene
C151	VCQYKA1HM273K	J	AB	0.027 µF,50V,Mylar
C152	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C153	VCEAZA1CW107M	J	AC	100 µF,16V,Electrolytic
C154	VCEAZA1CW476M	J	AB	47 µF,16V,Electrolytic
C155,156	VCEAZA1HW335M	J	AB	3.3 µF,50V,Electrolytic
C301	VCKYMN1HB820K	J	AA	82 pF,50V
C302	VCCCMN1HH100J	J	AA	10 pF (CH),50V
C303	VCTYMN1CY103N	J	AA	0.01 µF,16V
C304	VCCCMN1HH4R7C	J	AA	4.7 pF (CH),50V
C305	VCCCMN1HH150J	J	AA	15 pF (CH),50V
C306	VCCCMN1HH180J	J	AA	18 pF (CH),50V
C307,308	VCTYMN1CX472K	J	AA	0.0047 µF,16V
C309	VCCUMN1HJ4R7D	J	AA	4.7 pF (UJ),50V
C310	VCKYMN1HB102K	J	AA	0.001 µF,50V
C311	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C312	VCKYMN1HB102K	J	AA	0.001 µF,50V
C313	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C314	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
C315	VCCUMN1HJ6R8D	J	AB	6.8 pF (UJ),50V
C316	VCKYBT1HB101K	J	AA	100 pF,50V
C317	VCCUMN1HJ3R9K	J	AA	3.9 pF (UJ),50V
C318	VCCCMN1HH220J	J	AA	22 pF (CH),50V
C319	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C330	VCCUMN1HJ8R2D	J	AA	8.2 pF (UJ),50V
C331	VCKZPA1HF473Z	J	AA	0.047 µF,50V
C332,333	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C334	VCCUMN1HJ220J	J	AA	22 pF (UJ),50V
C335	VCCSPA1HL561J	J	AA	560 pF,50V
C337	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic
C338	VCKYMN1HB101K	J	AA	100 pF,50V
C349	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C350	VCEAZA1AW227M	J	AC	220 µF,10V,Electrolytic
C351	VCTYMN1CX222K	J	AA	0.0022 µF,16V
C353	VCTYMN0JY183M	J	AA	0.018 µF,6.3V
C354	VCKYMN1HB221K	J	AA	220 pF,50V
C355~357	VCEAZA1HW335M	J	AB	3.3 µF,50V,Electrolytic
C358	CPU100V1500PJ	J	AC	0.0015 µF,100V,Polypropylene
C359,360	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C361	VCEAZA1EW226M	J	AB	22 µF,25V,Electrolytic
C363,364	VCTYPA1EX153K	J	AA	0.015 µF,25V
C365~367	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C369	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C381	VCCCMN1HH120J	J	AA	12 pF 5(CH),50V
C382	VCCCMN1HH150J	J	AA	15 pF (CH),50V
C383	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C384	VCKYPA1HB102K	J	AA	0.001 µF,50V
C392	VCKYMN1HB102K	J	AA	0.001 µF,50V
C393	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C395	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C551	VCKYMN1HB271K	J	AA	270 pF,50V
C553	VCTYMN1CX272K	J	AA	0.0027 µF,16V
C555,556	VCTYMN1CX682K	J	AA	0.0068 µF,16V
C557	VCKYMN1HB271K	J	AA	270 pF,50V
C559	VCTYMN1CX272K	J	AA	0.0027 µF,16V
C561~563	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C566~568	VCEAZA1HW225M	J	AB	2.2 µF,50V,Electrolytic
C569	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C601~606	VCEAZA1HW475M	J	AB	4.7 µF,50V,Electrolytic
C611,612	VCTYPA1EX333K	J	AA	0.033 µF,25V
C613~615	VCFYHA1HA224J	J	AC	0.22 µF,50V,Thin Film
C616	VCCSMN1HL4R7K	J	AA	4.7 pF,50V
C617	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C618,619	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C620	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C621,622	VCEAZA1HW104M	J	AB	0.1 µF,50V,Electrolytic [2900 Only]
C623	VCKYMN1HB102K	J	AA	0.001 µF,50V [622 Only]
C624~626	VCKYMN1HB102K	J	AA	0.001 µF,50V
C627	VCEAZA1EW226M	J	AB	22 µF,25V,Electrolytic
C628	VCFYHA1HA224J	J	AC	0.22 µF,50V,Thin Film
C629	VCEAZA1EW226M	J	AB	22 µF,25V,Electrolytic
C630	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C631,632	VCKYMN1HB391K	J	AA	390 pF,50V
C634,635	VCKYMN1CX472K	J		0.0047 µF,16V
C702	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C705	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C706	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C707	VCCSMN1HL150J	J	AA	15 pF,50V
C708	VCCSMN1HL180J	J	AA	18 pF,50V
C709	VCTYBT1EF223Z	J	AA	0.022 µF,25V
C710	VCEAZA1AW227M	J	AC	220 µF,10V,Electrolytic
C711	VCTYMN1CY103N	J	AA	0.01 µF,16V
C712	VCEAZA1HW335M	J	AB	3.3 µF,50V,Electrolytic
C713	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C714	VCTYBT1EF223Z	J	AA	0.022 µF,25V
C715	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C718	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C719	VCTYMN1EF223Z	J	AA	0.022 µF,25V
C720	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C722	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C723	VCEAZA1HW104M	J	AB	0.1 µF,50V,Electrolytic
C801	RC-KZ001LAWZZ	J	AB	0.0047 µF,250VAC,Ceramic [2900 Only]
C802	VCEAZA1VW107M	J	AC	100 µF,35V,Electrolytic
C803,804	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C805~808	VCKZPA1HF473Z	J	AA	0.047 µF,50V [2900 Only]
C809	VCQYKA1HM473K	J	AB	0.047 µF,50V,Mylar
C810	VCEAZA1EW477M	J	AD	470 µF,25V,Electrolytic
C811~813	VCEAZA1HW227M	J	AC	220 µF,50V,Electrolytic
C814	VCEAZA1CW106M	J	AC	10 µF,16V,Electrolytic [2900 Only]
C815	VCEAZA0JW108M	J	AC	1000 µF,6.3V,Electrolytic
C821	VCQYKA1HM473K	J	AB	0.047 µF,50V,Mylar
C824	VCQYKA1HM473K	J	AB	0.047 µF,50V,Mylar
C825	VCEAZA1EW226M	J	AB	22 µF,25V,Electrolytic
C826	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C827,828	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C829	VCEAZW1EW338M	J	AG	3300 µF,25V
C830,831	VCEAZA1EW476M	J	AB	47 µF,25V,Electrolytic
C832,833	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C901	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
C902	VCCSPA1HL221J	J	AA	220 pF,50V
C903	VCEAZA1HW105M	J	AB	1 µF,50V,Electrolytic
C904	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C905	VCCSPA1HL221J	J	AA	220 pF,50V
C907	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C909,910	VCEAZW1HW228M	J	AH	2200 µF,50V,Electrolytic
C911,912	VCEAZA1HW107M	J	AC	100 µF,50V,Electrolytic
C915	VCCSPA1HL470J	J	AA	47 pF,50V
C916	VCCSPA1HL150J	J	AA	15 pF,50V
C917,918	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C920,921	VCKZPA1HF223Z	J	AA	0.022 µF,50V
C923	VCCSPA1HL470J	J	AA	47 pF,50V
C924	VCCSPA1HL150J	J	AA	15 pF,50V
C936,937	VCQYKA1HM104K	J	AB	0.1 µF,50V,Mylar
C938	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic
C954	VCEAZA1HW107M	J	AC	100 µF,50V,Electrolytic [622 Only]
C956	VCEAZA1HW107M	J	AC	100 µF,50V,Electrolytic [622 Only]
C960	VCEAZA1HW106M	J	AB	10 µF,50V,Electrolytic
C961	VCEAZA1HW476M	J	AB	47 µF,50V,Electrolytic

RESISTORS

	VRS-TV2AB000J	J	AA	0 ohm,Jumper,1.25×2mm,Green
R1	VRS-TV2AB220J	J	AA	22 ohms,1/10W
R2	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R8	VRS-TV2AB153J	J	AA	15 kohms,1/10W
R9	VRS-TV2AB104J	J	AA	100 kohm,1/10W
R10	VRS-TV2AB222J	J	AA	2.2 kohms,1/10W
R11	VRD-ST2CD682J	J	AA	6.8 kohms,1/6W
R12	VRD-ST2CD101J	J	AA	100 ohm,1/6W
R13	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R14	VRS-TV2AB273J	J	AA	27 kohms,1/10W
R15	VRS-TV2AB123J	J	AA	12 kohms,1/10W
R16	VRS-TV2AB332J	J	AA	3.3 kohms,1/10W
R17	VRS-TV2AB333J	J	AA	33 kohms,1/10W
R18	VRS-TV2AB153J	J	AA	15 kohms,1/10W
R19	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R20	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R21	VRS-TV2AB152J	J	AA	1.5 kohms,1/10W
R22	VRS-TV2AB821J	J	AA	820 ohms,1/10W
R23	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R24	VRS-TV2AB473J	J	AA	47 kohms,1/10W
R25	VRS-TV2AB152J	J	AA	1.5 kohms,1/10W
R26	VRS-TV2AB823J	J	AA	82 kohms,1/10W
R27	VRS-TV2AB393J	J	AA	39 kohms,1/10W
R28	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R29	VRS-TV2AB563J	J	AA	56 kohms,1/10W
R30	VRS-TV2AB682J	J	AA	6.8 kohms,1/10W
R31	VRS-TV2AB122J	J	AA	1.2 kohms,1/10W
R32	VRS-TV2AB103J	J	AA	10 kohm,1/10W
R33	VRS-TV2AB122J	J	AA	1.2 kohms,1/10W
R34	VRS-TV2AB332J	J	AA	3.3 kohms,1/10W
R35,36	VRS-TV2AB224J	J	AA	220 kohms,1/10W
R37	VRD-ST2CD823J	J	AA	82 kohms,1/6W
R38	VRS-TV2AB471J	J	AA	470 ohms,1/10W
R39	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R40	VRS-TV2AB562J	J	AA	5.6 kohms,1/10W
R41,42	VRS-TV2AB473J	J	AA	47 kohms,1/10W
R43	VRS-TV2AB563J	J	AA	56 kohms,1/10W
R44	VRS-TV2AB333J	J	AA	33 kohms,1/10W
R45	VRS-TV2AB472J	J	AA	4.7 kohms,1/10W
R46	VRS-TV2AB561J	J	AA	560 ohms,1/10W
R47	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R50	VRS-TV2AB681J	J	AA	680 ohms,1/10W
R51	VRD-ST2CD335J	J	AA	3.3 Mohms,1/6W
R52	VRS-TV2AB273J	J	AA	27 kohms,1/10W
R53	VRS-TV2AB122J	J	AA	1.2 kohms,1/10W
R54	VRD-ST2CD331J	J	AA	330 ohms,1/6W
R55	VRD-ST2CD101J	J	AA	100 ohm,1/6W
R56	VRS-TV2AB682J	J	AA	6.8 kohms,1/10W
R57	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R58~60	VRS-TV2AB102J	J	AA	1 kohm,1/10W
R61~63	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R64	VRS-TV2AB220J	J	AA	22 ohms,1/10W
R65	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R66	VRS-TV2AB221J	J	AA	220 ohms,1/10W
R71,72	VRD-ST2CD272J	J	AA	2.7 kohms,1/6W
R73,74	VRS-TV2AB104J	J	AA	100 kohm,1/10W
R80,81	VRD-ST2CD821J	J	AA	820 ohms,1/6W
R82,83	VRS-TV2AB391J	J	AA	390 ohms,1/10W
R84	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R88,89	VRD-ST2CD122J	J	AA	1.2 kohms,1/6W
R90	VRD-ST2CD221J	J	AA	220 ohms,1/6W
R91	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R93	VRS-TV2AB221J	J	AA	220 ohms,1/10W
R101	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R102	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R103,104	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R105,106	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
R107,108	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R109,110	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R111,112	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R113,114	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R115	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R117,118	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R119,120	VRD-ST2CD560J	J	AA	56 ohms,1/6W
R121,122	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R123,124	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R125,126	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R131,132	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R134	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R135,136	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W [622]
R135,136	VRD-MN2BD822J	J	AA	8.2 kohms,1/8W [2900]
R137	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
R138	VRD-ST2CD682J	J	AA	6.8 kohms,1/6W
R139,140	VRD-MN2BD561J	J	AA	560 ohms,1/8W
R141,142	VRD-MN2BD560J	J	AA	56 ohms,1/8W
R145,146	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R153,154	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R155	VRD-ST2EE151J	J	AA	150 ohms,1/4W
R156	VRD-ST2CD224J	J	AA	220 kohms,1/6W
R157	VRD-MN2BD224J	J	AA	220 kohms,1/8W
R158	VRD-ST2EE221J	J	AA	220 ohms,1/4W
R160	VRD-ST2EE151J	J	AA	150 ohms,1/4W
R162	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R164	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R166	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R167	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R168	VRD-MN2BD120J	J	AA	12 ohms,1/8W
R169	VRD-MN2BD681J	J	AA	680 ohms,1/8W
R170	VRD-ST2CD681J	J	AA	680 ohms,1/6W
R171,172	VRD-MN2BD224J	J	AA	220 kohms,1/8W
R173,174	VRD-MN2BD562J	J	AA	5.6 kohms,1/8W
R175	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R301	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R302	VRD-ST2CD220J	J	AA	22 ohms,1/6W
R303	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R304,305	VRD-MN2BD820J	J	AA	82 ohms,1/8W
R306	VRD-MN2BD100J	J	AA	10 ohm,1/8W
R311	VRD-MN2BD224J	J	AA	220 kohms,1/8W
R312	VRD-MN2BD681J	J	AA	680 ohms,1/8W
R314	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R316	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R317	VRD-ST2EE821J	J	AA	820 ohms,1/4W
R320	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R321	VRD-MN2BD121J	J	AA	120 ohms,1/8W
R323	VRD-MN2BD683J	J	AA	68 kohms,1/8W
R340	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
R347	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R348	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R349	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R350	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R352	VRD-MN2BD153J	J	AA	15 kohms,1/8W
R356	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R359	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R360	VRD-MN2BD224J	J	AA	220 kohms,1/8W
R361	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R362	VRD-ST2EE391J	J	AA	390 ohms,1/4W
R365	VRD-ST2EE681J	J	AA	680 ohms,1/4W
R369	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R371~374	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R375	VRD-ST2CD122J	J	AA	1.2 kohms,1/6W
R379	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R380	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R381	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R551	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R553	VRD-ST2CD123J	J	AA	12 kohms,1/6W
R555	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R556	VRD-MN2BD333J	J	AA	33 kohms,1/8W
R558	VRD-ST2CD683J	J	AA	68 kohms,1/6W
R560	VRD-ST2CD474J	J	AA	470 kohms,1/6W
R561	VRD-ST2CD153J	J	AA	15 kohms,1/6W

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
R562	VRD-MN2BD394J	J	AA	390 kohms,1/8W
R564	VRD-MN2BD394J	J	AA	390 kohms,1/8W
R566	VRD-MN2BD225J	J	AA	2.2 Mohms,1/8W
R567	VRD-MN2BD274J	J	AA	270 kohms,1/8W
R568	VRD-MN2BD224J	J	AA	220 kohms,1/8W
R570	VRD-MN2BD224J	J	AA	220 kohms,1/8W
R572	VRD-MN2BD225J	J	AA	2.2 Mohms,1/8W
R573	VRD-MN2BD564J	J	AA	560 kohms,1/8W
R574,575	VRD-ST2EE331J	J	AA	330 ohms,1/4W
R578~580	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R601	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R602	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W
R603~605	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
R606~608	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W
R609	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W [622]
R609	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W [2900]
R610	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R611	VRD-ST2CD331J	J	AA	330 ohms,1/6W
R612	VRD-MN2BD153J	J	AA	15 kohms,1/8W
R613,614	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R615,616	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
R617~620	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R621,622	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R623	VRD-ST2CD562J	J	AA	5.6 kohms,1/6W
R624	VRD-MN2BD331J	J	AA	330 ohms,1/8W
R625	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R626	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
R628	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R629,630	VRD-RT2HD561J	J	AA	560 ohms,1/2W
R631~634	VRD-MN2BD223J	J	AA	22 kohms,1/8W
R635,636	VRD-MN2BD331J	J	AA	330 ohms,1/8W
R637,638	VRD-MN2BD224J	J	AA	220 kohms,1/8W
R639~642	VRD-MN2BD473J	J	AA	47 kohms,1/8W
R645,646	VRD-ST2CD104J	J	AA	100 kohm,1/6W
R701,702	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R703	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R705~708	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R709	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R711	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R712	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R713~715	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R716	VRD-ST2CD330J	J	AA	33 ohms,1/6W
R717	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R719,720	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R721~723	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R724	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R726,727	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R730~732	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R733,734	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R735	VRD-ST2CD182J	J	AA	1.8 kohms,1/6W
R736,737	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R738	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R739	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R740~744	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R745	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R747,748	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R749,750	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R751	VRD-ST2CD332J	J	AA	3.3 kohms,1/6W
R752~754	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R755~757	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R758	VRD-MN2BD122J	J	AA	1.2 kohms,1/8W
R759,760	VRD-MN2BD103J	J	AA	10 kohm,1/8W
R762~772	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R774~778	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R780	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R786,787	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R795	VRD-MN2BD472J	J	AA	4.7 kohms,1/8W
R797	VRD-MN2BD104J	J	AA	100 kohm,1/8W
R798	VRD-ST2CD101J	J	AA	100 ohm,1/6W
R801	VRD-ST2CD123J	J	AA	12 kohms,1/6W
R802	VRD-ST2EE470J	J	AA	47 ohms,1/4W
R803	VRD-ST2CD473J	J	AA	47 kohms,1/6W
R806	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
R808	VRD-ST2CD221J	J	AA	220 ohms,1/6W
R825	VRD-ST2CD330J	J	AA	33 ohms,1/6W
R827	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R830	VRS-VV3DA681J	J	AC	680 ohms,2W
R831	VRD-RT2HD3R3J	J	AA	3.3 ohms,1/2W
R832	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R837	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R901	VRD-ST2CD104J	J	AA	100 kohm,1/6W
R902	VRD-ST2CD683J	J	AA	68 kohms,1/6W
R903	VRD-ST2CD104J	J	AA	100 kohm,1/6W
R904	VRD-ST2CD683J	J	AA	68 kohms,1/6W
R905	VRD-MN2BD102J	J	AA	1 kohm,1/8W
R907	VRD-MN2BD102J	J	AA	1 kohm,1/8W
⚠ R912,913	VRG-ST2EC101J	J	AB	100 ohm,1/4W,Fusible
R916	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R917	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R918	VRD-ST2CD821J	J	AA	820 ohms,1/6W
R921	VRD-ST2CD223J	J	AA	22 kohms,1/6W
R922	VRD-ST2CD821J	J	AA	820 ohms,1/6W
R923	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R924	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R925,926	VRN-VV3AAR10J	J		0.1 ohm,1W
R928,929	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R930,931	VRD-ST2CD103J	J	AA	10 kohm,1/6W
R934	VRD-ST2EE4R7J	J	AA	4.7 ohms,1/4W
R936	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R937	VRD-ST2EE4R7J	J	AA	4.7 ohms,1/4W
R938,939	VRD-ST2CD563J	J	AA	56 kohms,1/6W
R941,942	VRD-ST2CD472J	J	AA	4.7 kohms,1/6W
R946	VRD-RT2HD331J	J	AA	330 ohms,1/2W
R949	VRD-RT2HD331J	J	AA	330 ohms,1/2W
R960	VRD-RT2HD220J	J	AA	22 ohms,1/2W
R961	VRD-ST2CD153J	J	AA	15 kohms,1/6W
R962	VRD-ST2CD683J	J	AA	68 kohms,1/6W
R963	VRD-ST2CD102J	J	AA	1 kohm,1/6W
R966	VRD-ST2EE223J	J	AA	22 kohms,1/4W
RD01	VRD-ST2CD821J	J	AA	820 ohms,1/6W
RD02	VRD-MN2BD122J	J	AA	1.2 kohms,1/8W
RD03	VRD-MN2BD152J	J	AA	1.5 kohms,1/8W
RD04	VRD-MN2BD182J	J	AA	1.8 kohms,1/8W
RD05	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
RD06	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
RD07	VRD-ST2CD392J	J	AA	3.9 kohms,1/6W
RD09	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
RD10	VRD-MN2BD821J	J	AA	820 ohms,1/8W
RD11	VRD-MN2BD122J	J	AA	1.2 kohms,1/8W
RD12	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W
RD13	VRD-ST2CD182J	J	AA	1.8 kohms,1/6W
RD14	VRD-ST2CD222J	J	AA	2.2 kohms,1/6W
RD15	VRD-MN2BD332J	J	AA	3.3 kohms,1/8W
RD16	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
RD21	VRD-ST2CD821J	J	AA	820 ohms,1/6W
RD22	VRD-ST2CD122J	J	AA	1.2 kohms,1/6W
RD23	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W
RD24	VRD-ST2CD182J	J	AA	1.8 kohms,1/6W
RD25	VRD-MN2BD222J	J	AA	2.2 kohms,1/8W
RD26	VRD-ST2CD332J	J	AA	3.3 kohms,1/6W
RD27	VRD-MN2BD392J	J	AA	3.9 kohms,1/8W
RD28	VRD-MN2BD682J	J	AA	6.8 kohms,1/8W
RS701~703	VRD-MN2BD471J	J	AA	470 ohms,1/8W
RS704,705	VRD-ST2CD471J	J	AA	470 ohms,1/6W
RS706	VRD-MN2BD471J	J	AA	470 ohms,1/8W
RS707	VRD-ST2CD471J	J	AA	470 ohms,1/6W
RS711	VRD-ST2CD152J	J	AA	1.5 kohms,1/6W
RS712	VRD-MN2BD122J	J	AA	1.2 kohms,1/8W

OTHER CIRCUITRY PARTS

BI1B	QCNWN1473AWZZ	J	AF	Connector Ass'y,2Pin
BI99/CNS99	QCNWN1382AWZZ	J	AF	Connector Ass'y,3/3Pin
BI601/CNS11	QCNWN1380AWZZ	J	AF	Connector Ass'y,6/6Pin
BI701/CNSM1	QCNWN1386AWZZ	J	AG	Connector Ass'y,8/12Pin
BI702/CNS12	QCNWN1381AWZZ	J	AL	Connector Ass'y,15/15Pin
BI703/CN806	QCNWN1391AWZZ	J	AF	Connector Ass'y,4/4Pin
BIM5/CNS10/CNS5	QCNWN1184AWZZ	J	AL	Connector Ass'y,6/10/2Pin
CNP1	92LCONE5P53253	J	AB	Plug,5Pin
CNP2	QCNCM705HAFZZ	J	AB	Plug,8Pin
CNP3	92LCONE6P53253	J	AC	Plug,6Pin
CNP3A	92LCONE6P53254	J	AC	Plug,6Pin
CNP10	QCNCM705KAWZZ	J	AC	Plug,10Pin
CNP11	QCNCM704FAWZZ	J	AC	Plug,6Pin
CNP12	QCNCM704QAWZZ	J	AG	Plug,15Pin
CNP99/BI1A	QCNCM704CAWZZ	J	AC	Plug,3/2Pin
CNP101	92LCONE3P53253	J	AB	Plug,3Pin
CNP102	92LCONE7P53253	J	AC	Plug,7Pin
CNP301	92LCONE3P5268	J		Plug,3Pin
CNP701	QCNCWZG21AWZZ	J	AG	Socket,21Pin
CNP801	QCNCM042BAWZZ	J	AC	Plug,2Pin
CNP802	QCNCM035HAWZZ	J	AB	Plug,8Pin
CNP804	92LCONE2P53253	J	AB	Plug,2Pin
CNP806	QCNCM705DAFZZ	J	AB	Plug,4Pin

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
CNPM1	QCNCM932MAFZZ	J	AE	Plug,12Pin
CNPM2	QCNCM030BAWZZ	J	AB	Pin Holder
CNS1A/B	QCNWN1181AWZZ	J	AK	Connector Ass'y,5/5Pin
CNS2A/B	QCNWN1182AWZZ	J	AH	Connector Ass'y,8/8Pin
CNS3A/B	QCNWN1183AWZZ	J	AG	Connector Ass'y,6/6Pin
CNS701	QCNCWZF21AWZZ	J	AF	Socket,21Pin
CNS804	QCNWN1389AWZZ	J	AC	Connector Ass'y,2Pin
⚠F802,803	QFS-D402CSJNI	J	AD	Fuse,4A/125V
⚠F805	QFS-D202DSJNI	J	AD	Fuse,2A/250V
FC701	QCNWN1383AWZZ	J	AB	Flat Cable,21Pin
FL701	VVKBJ685GNK-1	J	AV	FL Display
FW702	QCNWN1387AWZZ	J	AF	Flat Wire,8Pin
FW801	QCNWN1388AWZZ	J	AD	Flat Wire,5Pin
FWM1	QCNWN1274AWZZ	J	AC	Flat Wire,2Pin
FWM2	QCNWN0338AWZZ	J	AD	Flat Wire,2Pin
IC99	VHPGP1F32T/-1	J	AP	Optical Fiber Data Link, GP1F32T
JK601	QSOCJ0213AWZZ	J	AE	Jack,Video In
JK970	QJAKM0010AWZZ	J	AF	Jack,Headphones
M1	92LMTR1858CASY	J	AS	Motor with Chassis [Disc]
M2	92LMTR1854BASY	J	AP	Motor with Gear [Slide]
M3	RMOTV0373AFZZ	J	AL	Motor with Worm Pulley [T/T Up/Down Loading]
M901	92LMTR1810A	J	AK	Motor,Air Cooling Fan
MM1(204-7)	RMOTV0006AWM1	J	AR	Motor with Pulley [Tape]
PHM1	VHPI31535CD-1	J	AG	Photo Interrupter
RL801	RRLYD0001SJZZ	J	AQ	Relay
RL901	RRLYD0004AWZZ	J	AP	Relay
RX701	VHLN63H380A-1	J	AK	Remote Sensor,N63H380A
⚠SO801	QSOCA0209AWZZ	J	AH	Socket,AC Input
SO901	QTANA0413AWZZ	J	AF	Terminal,Speaker [2900]
SO901	QTANA0803AWZZ	J	AH	Terminal,Speaker [622]
SOLM1(204-8)	RPLU-0002AWZZ	J	AH	Solenoid Ass'y [Tape]
SOLM2	RPLU-0002AWZZ	J	AH	Solenoid Ass'y [CD]
SW1	QSW-P0004AWZZ	J	AE	Switch,Push Type [Open/Close]
SW2	QSW-F0001AWZZ	J	AD	Switch,Leaf/Skeleton Type [Mecha Up]
SW3	QSW-P0005AWZZ	J	AD	Switch,Push Type [Disc Number]
SW4	QSW-F9001AW01	J	AD	Switch,Leaf Type [Pickup In]
SW701	92LSWICH1401AT	J	AC	Switch,Key Type [POWER]
SW703	92LSWICH1401AT	J	AC	Switch,Key Type [CLOCK]
SW704	92LSWICH1401AT	J	AC	Switch,Key Type [TIMER/SLEEP]
SW705	92LSWICH1401AT	J	AC	Switch,Key Type [DISC 1]
SW706	92LSWICH1401AT	J	AC	Switch,Key Type [DISC 2]
SW707	92LSWICH1401AT	J	AC	Switch,Key Type [DISC 3]
SW708	92LSWICH1401AT	J	AC	Switch,Key Type [DISC SKIP]
SW709	92LSWICH1401AT	J	AC	Switch,Key Type [OPEN/CLOSE]
SW710	92LSWICH1401AT	J	AC	Switch,Key Type [REV]
SW711	92LSWICH1401AT	J	AC	Switch,Key Type [REC PAUSE]
SW712	92LSWICH1401AT	J	AC	Switch,Key Type [MEMORY/SET]
SW713	92LSWICH1401AT	J	AC	Switch,Key Type [STOP]
SW714	92LSWICH1401AT	J	AC	Switch,Key Type [TUNER/BAND]
SW715	92LSWICH1401AT	J	AC	Switch,Key Type [VIDEO]
SW716	92LSWICH1401AT	J	AC	Switch,Key Type [TAPE]
SW717	92LSWICH1401AT	J	AC	Switch,Key Type [CD]
SW722	92LSWICH1401AT	J	AC	Switch,Key Type [FF]
SW723	92LSWICH1401AT	J	AC	Switch,Key Type [TUNING UP]
SW724	92LSWICH1401AT	J	AC	Switch,Key Type [TUNING DOWN]
SW725	92LSWICH1401AT	J	AC	Switch,Key Type [PLAY]
SW726	92LSWICH1401AT	J	AC	Switch,Key Type [VOLUME DOWN]
SW727	92LSWICH1401AT	J	AC	Switch,Key Type [VOLUME UP]
SW728	92LSWICH1401AT	J	AC	Switch,Key Type [X-BASS/DEMO]
SW729	92LSWICH1401AT	J	AC	Switch,Key Type [EQUALIZER]
SW730	92LSWICH1401AT	J	AC	Switch,Key Type [DIMMER]
SWM3(204-9)	92LM-SW1676A	J	AC	Switch,Leaf Type [Fool Proof]
SWM4(204-10)	QSW-F9003AWZZ	J	AG	Switch,Leaf Type [F.A.S]
SWM5(204-11)	92LM-SW1658A	J	AB	Switch,Leaf Type [CAM]
WTM801	QCNCW012EAWZZ	J	AC	Plug,5Pin

CD MECHANISM PARTS

301	NGERH0011AWZZ	J	AC	Gear,Middle
302	NGERH0012AWZZ	J	AC	Gear,Drive
303	MLEVP0010AWZZ	J	AC	Rail,Guide
304	NSFTM0002AWFW	J	AE	Shaft,Guide
305	92LM-CUSN1524A	J	AC	Cushion
⚠306	92LHPC1MASY	J	BG	Pickup Unit Ass'y
306- 1	————		—	Pickup Unit (Not Replacement Item)
306- 2	NGERR0043AFZZ	J	AC	Gear,Rack
306- 3	MSPRC0961AFZZ	J	AA	Spring,Rack
701	XBSSD26P06000	J	AA	Screw,ø2.6×6mm
702	XHBSD20P05000	J	AA	Screw,ø2×5mm
703	XBBSD20P03000	J	AA	Screw,ø2×3mm
704	LX-WZ1070AFZZ	J	AA	Washer,ø1.5×ø3.8×0.25mm
M1	92LMTR1858CASY	J	AS	Motor with Chassis [Disc]
M2	92LMTR1854BASY	J	AP	Motor with Gear [Side]
SW4	QSW-F9001AW01	J	AD	Switch,Leaf Type [Pickup In]

CABINET PARTS

201	GCAB-1044AWSA	J	AM	CD Player Base
202	GCAB-1052AWSA	J	AP	Top Cabinet
203	GITAR0422AWSA	J	AH	Back Board [622 For U.S.A./ Central America]
203	GITAR0423AWSA	J		Back Board [622 Except for U.S.A./Canada]
203	GITAR0434AWSA	J	AH	Back Board [622 For Canada]
203	GITAR0435AWSA	J	AH	Back Board [2900 For U.S.A./ Central America]
203	GITAR0436AWSA	J		Back Board [2900 Except for U.S.A./Canada]
203	GITAR0437AWSA	J	AN	Back Board [2900 For Canada]
204	92LMEC2744AS1	J	BK	Tape Mechanism Ass'y
204- 1	NBLTK0011AWZZ	J	AC	Belt,Main,Tape 1
204- 2	NBLTK0012AWZZ	J	AB	Belt,Main,Tape 2
204- 3	NBLTK0030AWZZ	J	AC	Belt,Sub
204- 4	NROLY0002AWZZ	J	AF	Pinch Roller Ass'y
204- 5	RHEDA0001AWZZ	J	AG	Head,Erase
204- 6	92LMRPH1746A	J	AM	Head,Record/Playback [Tape 1/Tape 2]
204- 7(MM1)	RMOTV0006AWM1	J	AR	Motor with Pulley [Tape]
204- 8(SOLM1)	RPLU-0002AWZZ	J	AH	Solenoid Ass'y [Tape]
204- 9(SWM3)	92LM-SW1676A	J	AC	Switch,Leaf Type [Fool Proof]
204-10(SWM4)	QSW-F9003AWZZ	J	AG	Switch,Leaf Type [F.A.S]
204-11(SWM5)	92LM-SW1658A	J	AB	Switch,Leaf Type [CAM]
205	LANGK0163AWFW	J	AB	Bracket,Fan Support
206	LCHSM0082AWFW	J	AP	Main Chassis
207	LANGF0032AWZZ	J	AC	Support,T/T Lock Lever
208	PCUSG0022AWZZ	J	AB	Cushion,Leg
209	PRDAR0130AWFW	J	AM	Heat Sink,Main
210	LCHSZ0010AWZZ	J	AM	Chassis,Loading
211	LCHSZ0011AWZZ	J	AG	Chassis,CD Mechanism
212	PRDAR0127AWFW	J	AM	Heat Sink,Sub
213	LHLDZ1140AWZZ	J	AB	Guide
214	LHLDZ1141AWZZ	J	AB	Support,Pitch
215	LHLDZ1213AWZZ	J	AE	Holder,FL
216	MLEVP0066AWZZ	J	AE	Lever,Shift
217	MLEVP0067AWZZ	J	AC	Lever,Lock
218	MLEVP0068AWZZ	J	AB	Lever,Change
219	MLEVP0070AWZZ	J	AB	Lever,T/T Lock
221	MSPRC0020AWFJ	J	AB	Spring,T/T Lock Lever
222	MSPRC0024AWFW	J	AB	Spring,Solenoid
223	MSPRD0044AWFJ	J	AB	Spring,Lock Lever
226	NBLTK0033AWZZ	J	AC	Belt,Drive
227	LHLDZ1228AWZZ	J	AC	Holder,LED,A
228	NGERH0064AWZZ	J	AD	Gear,Cam
229	NGERH0065AWZZ	J	AB	Gear,Turntable
230	NGERK0003AWZZ	J	AC	Gear,Drive
231	NGERK0004AWZZ	J	AB	Gear,Bevel
232	NGERK0005AWZZ	J	AB	Gear,Loading
233	92LN-BAND1318A	J	AA	Nylon Band,80mm
234	NGERW0006AWZZ	J	AC	Gear,Worm Wheel
235	NPLYD0002AWZZ	J	AC	Pulley
236	NROLP0009AWZZ	J	AB	Roller
237	NTNT-0018AWSA	J	AK	Turntable
238	PCUSG0022AWZZ	J	AB	Cushion,Leg
239	LHLDZ1229AWZZ	J	AC	Holder,LED,B
⚠240	QFSHD0001AWZZ	J	AB	Holder,Fuse
241	QLUGP0001AWZZ	J	AC	Lug
242	92LCAUT1472A	J	AA	Label,Fuse Caution
243	MSPRD0093AWFJ	J	AB	Spring,Cassette,Tape 2
244	92LCAB3022AS1	J	BB	Front Panel Ass'y [622]
244	92LCAB3071AS1	J	AK	Front Panel Ass'y [2900]
244- 1	————		—	Front Panel (Not Replacement Item)
244- 2	HDECQ0410AWSA	J	AH	Panel,AMP. [622]

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
244- 2	HDECQ0465AWSA	J	AB	Panel,AMP. [2900]
244- 3	HDECQ0411AWSA	J	AE	Volume Ring
244- 4	HDECQ0412AWSA	J	AC	Operation Ring,A
244- 5	HDECQ0413AWSA	J	AF	Operation Ring,B [622]
244- 5	HDECQ0413AWSB	J	AB	Operation Ring,B [2900]
244- 6	HDECQ0414AWSA	J	AD	Center Cap,Operation
244- 7	HDECQ0415AWSA	J	AD	Cover,LED
244- 8	HDECQ0417AWSA	J	AE	Panel,Center Cap
244- 9	HDECQ0418AWSA	J	AH	Decoration Panel [622]
244- 9	HDECQ0418AWSB	J	AB	Decoration Panel [2900]
244-10	HDECQ0419AWSA	J	AF	Decoration,Play Knob
244-11	HDECQ0420AWSA	J	AE	Decoration,Stop Knob
244-12	HDECQ0457AWSA	J	AC	Decoration Panel,Play
244-13	HDECQ0458AWSA	J	AC	Decoration Panel,Stop
244-14	JKNBZ0557AWSA	J	AE	Knob,Disc No.
244-15	JKNBZ0558AWSA	J	AE	Knob,Open/Close/Disc Skip
244-16	JKNBZ0559AWSA	J	AE	Knob,Power
244-17	JKNBZ0560AWSA	J	AE	Knob,X-BASS
244-18	JKNBZ0561AWSA	J	AF	Knob,Operation
244-19	JKNBZ0563AWSA	J	AG	Knob,FF/REW/Tuning [622]
244-19	JKNBZ0563AWSB	J	AB	Knob,FF/REW/Tuning [2900]
244-20	JKNBZ0565AWSA	J	AD	Knob,Timer/Sleep/Clock
244-21	JKNBZ0567AWSA	J	AF	Knob,Volume
244-22	JKNBZ0570AWSA	J	AD	Knob,Dimmer/Equalizer
245	92LMEC3022CTS1	J	AM	Cassette Holder Ass'y,Tape 1
245- 1	————		—	Holder,Cassette,Tape 1 (Not Replacement Item)
245- 2	GCOVA1221AWSA	J	AH	Cover,Cassette,Tape 1
245- 3	HDECQ0408AWSA	J	AD	Panel,Cassette,Tape 1
246	92LMEC3022CTS2	J	AM	Cassette Holder Ass'y,Tape 2
246- 1	————		—	Holder,Cassette,Tape 2 (Not Replacement Item)
246- 2	GCOVA1222AWSA	J	AH	Cover,Cassette,Tape 2
246- 3	HDECQ0409AWSA	J	AD	Panel,Cassette,Tape 2
247	MLIFP0006AWZZ	J	AE	Damper
248	MSPRD0092AWFJ	J	AB	Spring,Cassette,Tape 1
249	92LCAB3022BS1	J	AL	Side Panel Ass'y,Left
249- 1	————		—	Side Panel,Left (Not Replacement Item)
249- 2	PCUSG0022AWZZ	J	AB	Cushion,Leg
250	92LCAB3022CS1	J	AL	Side Panel Ass'y,Right
250- 1	————		—	Side Panel,Right (Not Replacement Item)
250- 2	PCUSG0022AWZZ	J	AB	Cushion,Leg
251	92LCOV3022AS1	J	AM	CD Tray Cover Ass'y
251- 1	————		—	Cover,CD Tray (Not Replacement Item)
251- 2	92LBADGE1671A	J	AC	Badge,SHARP
251- 3	GCOVA1224AWSA	J		Cover,CD Tray Panel,Left
251- 4	GCOVA1225AWSA	J		Cover,CD Tray Panel,Right
252	LANGF0039AWFW1	J	AC	Bracket,Power Transformer Support
253	LANGK0170AWFW	J	AC	Bracket,Headphones Support
254	PCOVZ1013AWZZ	J	AB	Cover,Wire
255	92LHOLD3022AS1	J	AB	Stabilizer Ass'y
255- 1	————		—	Stabilizer (Not Replacement Item)
255- 2	PMAGF0001AWZZ	J	AF	Magnet
255- 3	92LSUPT1749D	J	AA	Bracket,Magnet
256	LHLDZ1204AWSA	J	AD	Bracket,Stabilizer
257	92LCSPR1431C	J	AA	Ring,Spring
258	NFANP0001AWZZ	J	AD	Rotary Fan
601	LX-EZ0005AWFD	J	AA	Screw,Special
602	XJBSF30P08000	J	AA	Screw,ø3×8mm
603	LX-JZ0002AWFD	J	AA	Screw,ø3×10mm
604	XESSD30P10000	J	AA	Screw,ø3×10mm
605	XJBSD30P14000	J	AA	Screw,ø3×14mm
606	XJBSD30P10000	J	AA	Screw,ø3×10mm
607	LX-TZ0019AFZZ	J	AB	Screw,Special
608	LX-JZ0039AFFD	J	AA	Screw,ø3×12mm
609	XBPSD26P05JSO	J	AB	Screw,ø2.6×5mm
610	XEBSD26P12000	J	AA	Screw,ø2.6×12mm
611	XEBSD30P10000	J	AA	Screw,ø3×10mm
612	XEBSD30P12000	J	AA	Screw,ø3×12mm
613	LX-JZ0010AFFD	J	AA	Screw,ø3×10mm
614	LX-HZ0082AFZZ	J	AA	Screw,ø4×8mm
615	XBBSD20P04000	J	AA	Screw,ø2×4mm
616	XJBSD30P08000	J	AA	Screw,ø3×8mm
617	XEBSF30P12000	J	AA	Screw,ø3×12mm
620	XJSSF30P10000	J	AA	Screw,ø3×10mm
621	XWHJZ62-09510	J	AB	Washer,ø6.2×ø10×0.9mm

PACKING PARTS (FOR CANADA ONLY)

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
	SPAKA0203AWZZ	J	AH	Packing Add.,Unit [622]
	SPAKA0211AWZZ	J		Packing Add.,Unit [2900]
	SPAKC0729AWZZ	J		Packing Case [622 Except for Canada]
	SPAKC0745AWZZ	J		Packing Case [2900 Except for Canada]
	SPAKC0755AWZZ	J		Packing Case [622 For Canada]
	SPAKC0756AWZZ	J		Packing Case [2900 For Canada]
	SPAKP0013AWZZ1	J	AC	Polyethylene Bag,Unit
	92LBAG1460C1	J	AB	Polyethylene Bag,Operation Manual
	92L16-01-0002	J		Polyethylene Bag,Rear Speaker [622 Only]
	92L17-01-0001	J		Packing Add.,Rear Speaker [622 Only]
	92L411-0108	J	AC	Polyethylene Bag,Front Speaker [622]
	92L412-0125	J		Packing Add.,Front Speaker [622]
	92L416-0060	J		Center Pad,Front Speaker [622 Only]
	92L70032001600	J	AC	Polyethylene Bag,Front Speaker [2900]
	92L71525003200	J	AC	Sheet,Front Speaker [2900 Only]
	92L720BPC46200	J	AM	Packing Add.,Bottom,Front Speaker [2900]
	92L720TPC46200	J	AM	Packing Add.,Top,Front Speaker [2900]

ACCESSORIES

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
⚠	QACCD0015AW00	J	AM	AC Power Supply Cord [For Canada]
⚠	QACCD0020AWZZ	J	AN	AC Power Supply Cord [Except for Canada]
	QANTL0007AWZZ	J	AK	FM/AM Loop Antenna
	TINSE0234AWZZ	J	AE	Operation Manual [622 For U.S.A.]
	TINSE0242AWZZ	J	AE	Operation Manual [2900 For U.S.A.]
	TINSK0079AWZZ	J	AG	Operation Manual [622 For Canada]
	TINSK0080AWZZ	J	AG	Operation Manual [2900 For Canada]
	TINSZ0391AWZZ	J	AB	Quick Guide [622 For U.S.A Only]
	TINSZ0392AWZZ	J		Operation Manual [622 Except for U.S.A/Canada]
	TINSZ0406AWZZ	J		Operation Manual [2900 Except for U.S.A./Canada]
	TINSZ0407AWZZ	J	AB	Quick Guide [2900 for U.S.A. Only]
	TLABR1024AWZZ	J		Label,Bar Code [2900]
	TLABR1025AWZZ	J		Label,Bar Code [622]
	TLABZ0502AWZZ	J		Feature Label,Tape 1 [622]
	TLABZ0503AWZZ	J		Feature Label,Tape 2 [622]
	TLABZ0523AWZZ	J		Feature Label,Tape 1 [2900]
	TLABZ0524AWZZ	J		Feature Label,Tape 2 [2900]
	RRMCG0177AWSA	J	AS	Remote Control
	GFTAB1022AWSA	J		Battery Lid,Remote Control

P.W.B. ASSEMBLY (Not Replacement Item)

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
PWB-A1~6	92LPWB3022MANS	J	—	Main/Power/Display/Switch/Headphones/Digital Output (Cobined Ass'y) [622]
PWB-A1~6	92LPWB3071MANS	J	—	Main/Power/Display/Switch/Headphones/Digital Output (Cobined Ass'y) [2900]
PWB-B	92LPWB3022CDUS	J	—	CD Servo
PWB-C	QPWBF0027AWZZ	J	AD	CD Motor (PWB Only)
PWB-D	QPWBF0341AWZZ	J	AB	Sensor (PWB Only)
PWB-E	QPWBF0106AWZZ	J	AF	Tape Mechanism (PWB Only)

OTHER SERVICE PART

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION
	UDSKA0004AFZZ	J	AZ	CD Pickup Lens Cleaner

NO.	PARTS CODE	★	PRICE RANK	DESCRIPTION

CP-C622

SPEAKER BOX PARTS FRONT SPEAKER

901	92L121-0162	J	AU	Net Frame Ass'y
902	92L051-0070	J		Cabinet Ass'y
903	92L312-0073	J	AU	Front Panel
904	92L291-0079	J		Speaker Cord
905	92L316-0068	J		Duct Pipe
906	92L394-0045	J	AC	Port Cushion
907	92L372-0025	J	AB	Screw,ø4×12mm
908	92L394-0049	J	AB	Cushion,Wire
909	92L351-0322	J	AB	Label,Specification
SP1,2	92L265-0021	J	AY	Woofer
SP3,4	92L124-0019	J	AC	Piezo

GBOXS0021AWM1

SPEAKER BOX PARTS REAR SPEAKER (CD-C622 ONLY)

901	92L02-02-0001	J	AR	Net Frame Ass'y
902	92L03-02-0001	J	AP	Bottom Cabinet
903	92L06-01-0001	J		Speaker Cord
904	92L09-01-0001	J	AC	Screw,ø3×14mm
905	92L15-01-0001	J		Label,Parts Code
SP1,2	92L08-01-0001	J	AS	Speaker,Full-range

CP-C2900

SPEAKER BOX PARTS

901	92L10002290010	J	BD	Cabinet Ass'y
902	92L200L0290010	J	AU	Front Panel,Left
903	92L200R0290010	J	AU	Front Panel,Right
904	92L201L0290010	J	AR	Net Frame Ass'y,Left
905	92L201R0290010	J	AR	Net Frame Ass'y,Right
906	92L3141PC46210	J	AL	Speaker Cord Ass'y
907	92L44210310100	J	AD	Cushion Wire
908	92LPCAT1XL12	J	AC	Catching Holder
909	92L411B930100P1	J		Screw,ø3×10mm
910	92L44010213300	J	AH	Port Cushion
911	92LB840140B1	J		Screw,ø4×14mm
912	92L6000C290000	J		Label,Specifications
SP1,2	VSP0013WB396A	J	BA	Woofer
SP3,4	VSP0050TBM26A	J	AR	Tweeter
SP5,6	92L303R0300110	J	AN	Super Tweeter

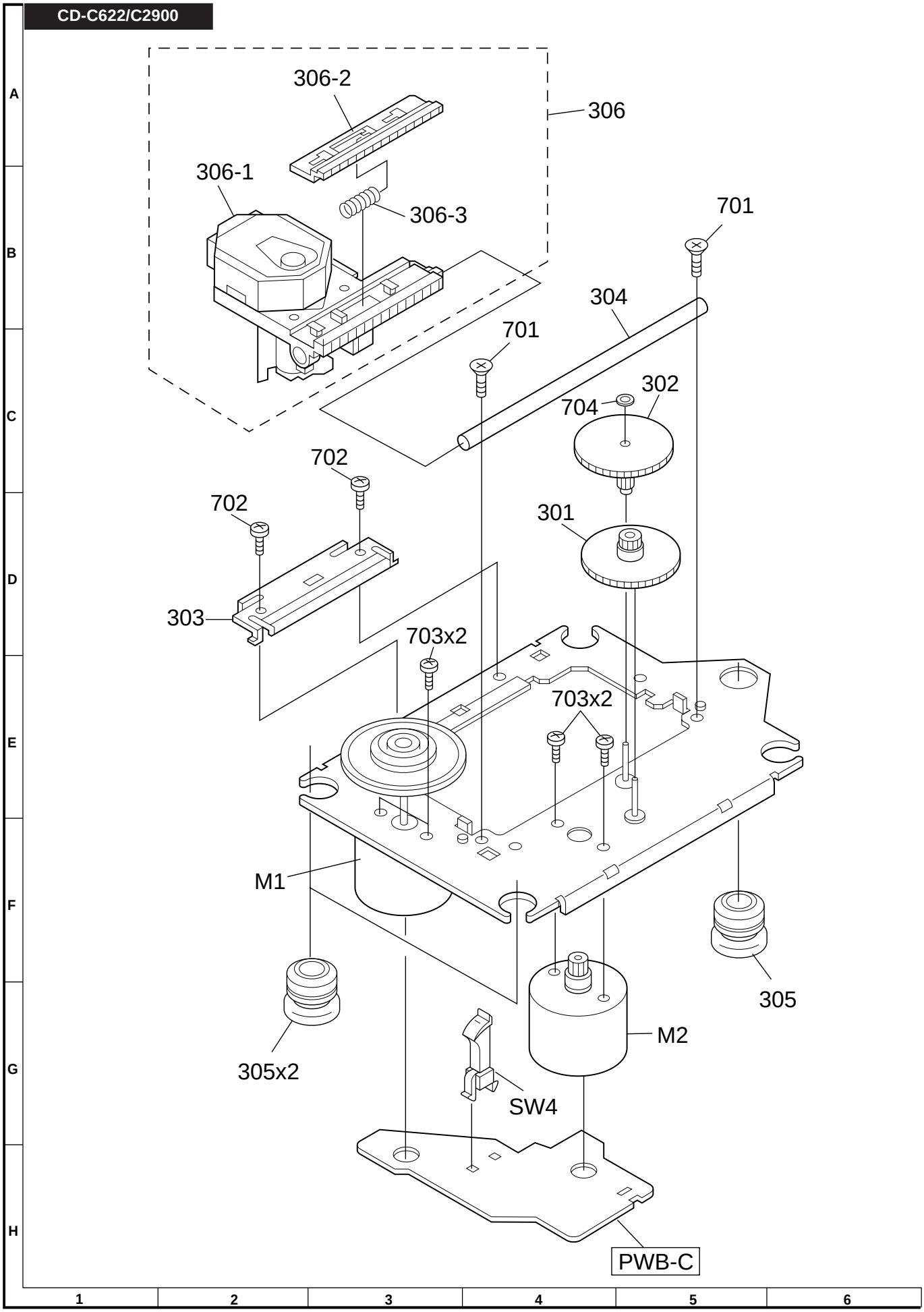


Figure 8 CD MECHANISM EXPLODED VIEW

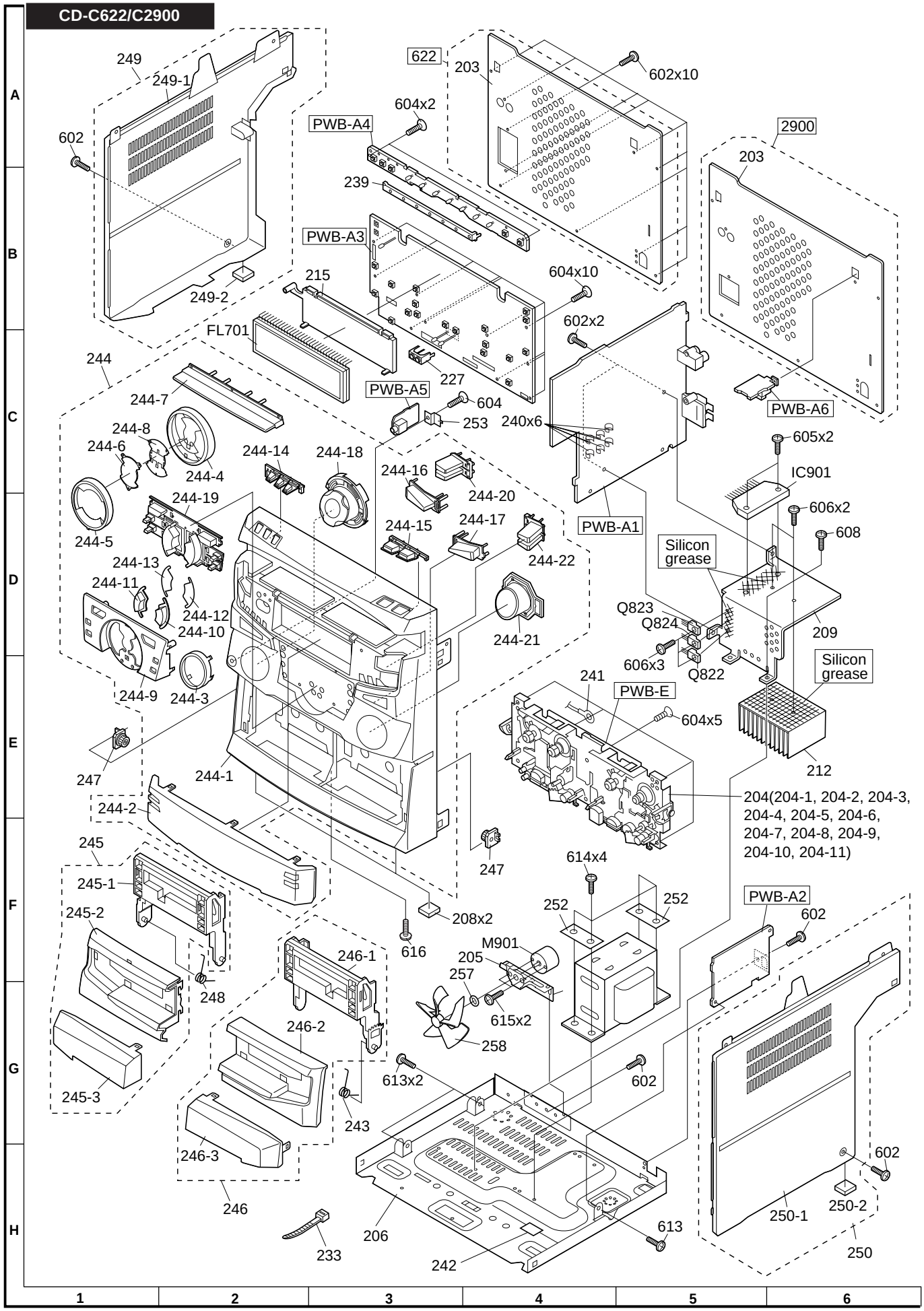


Figure 9 CABINET EXPLODED VIEW (1/2)

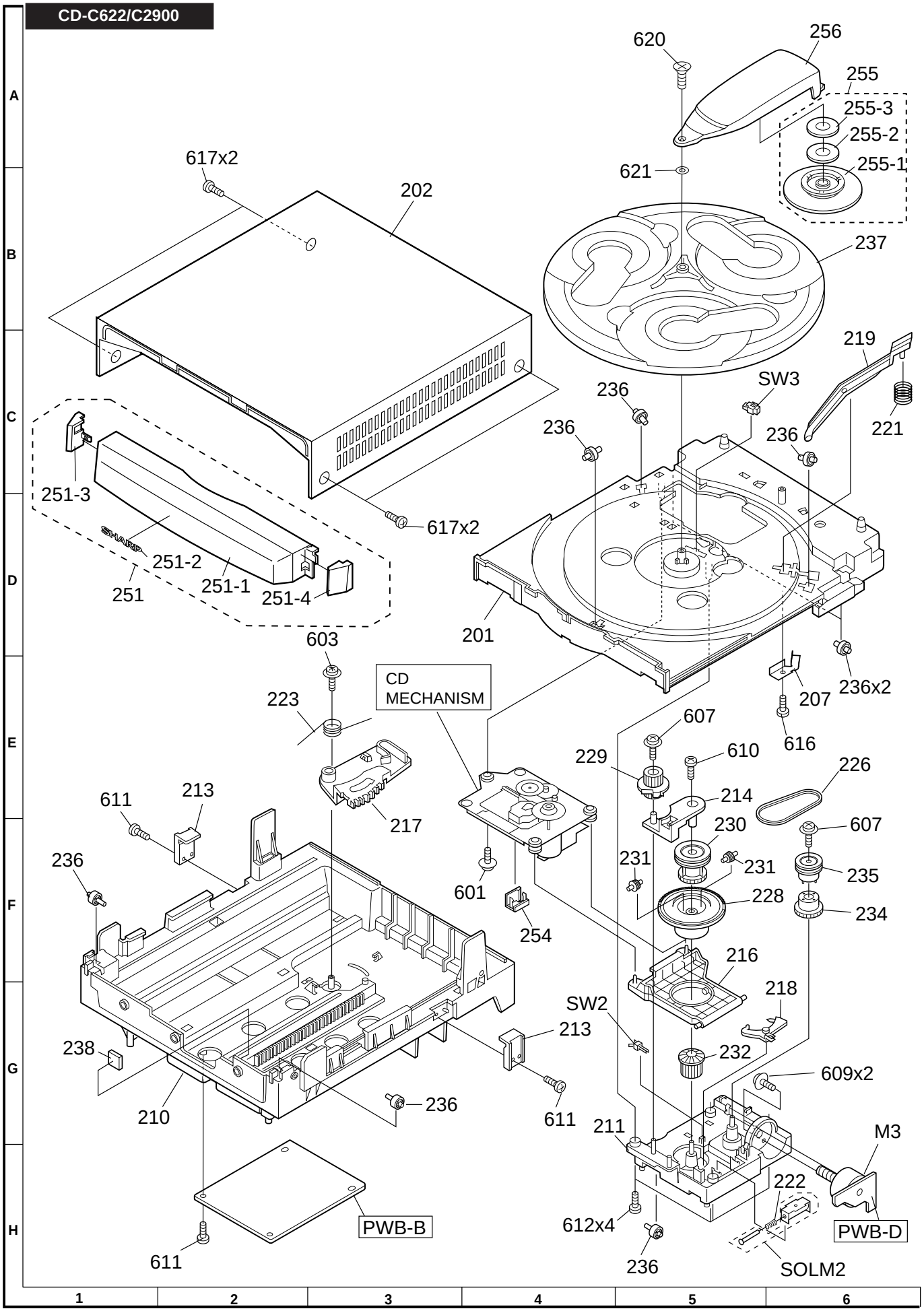


Figure 10 CABINET EXPLODED VIEW (2/2)

CP-C622

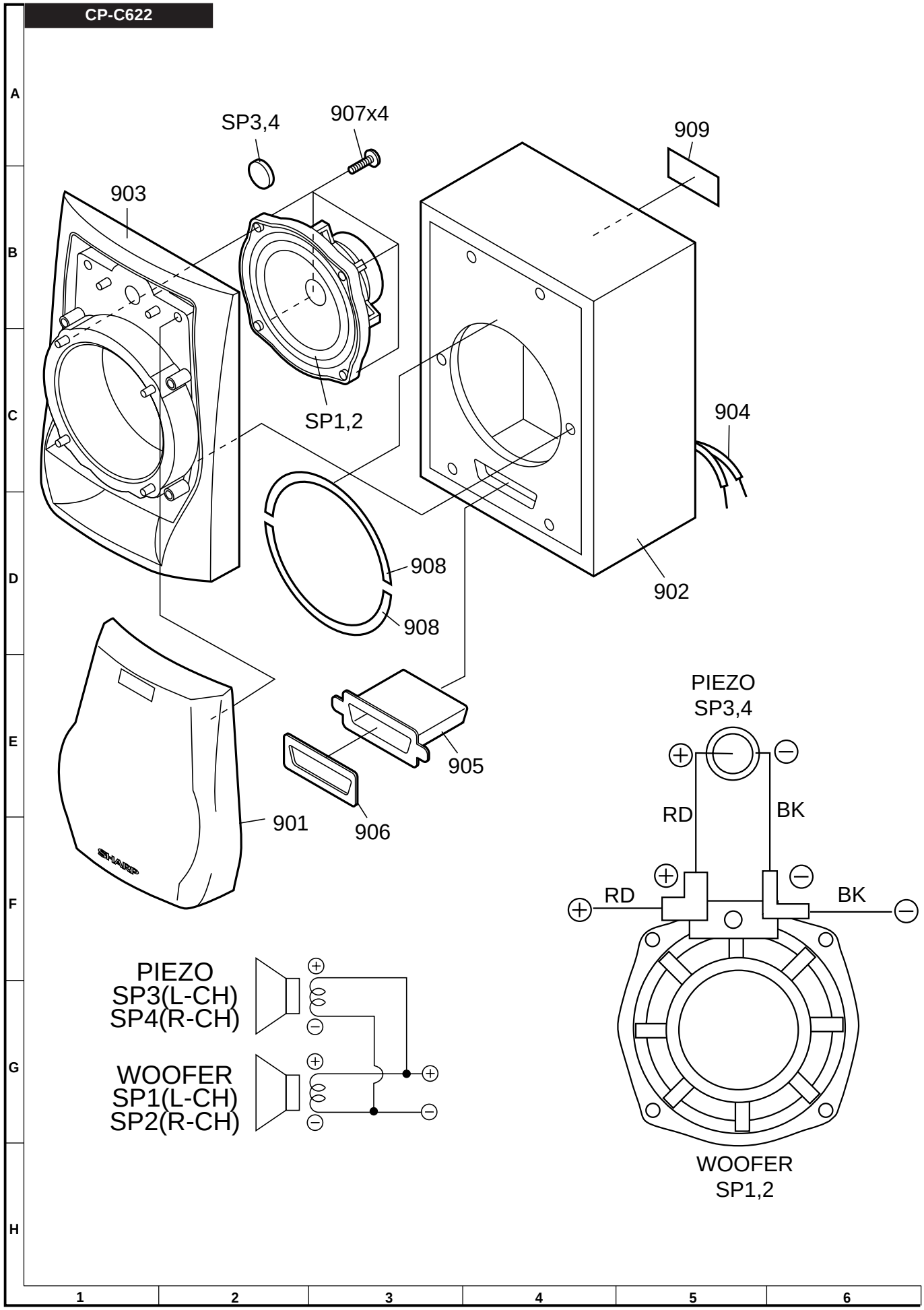


Figure 11 SPEAKER EXPLODED VIEW (1/3)

CP-C2900

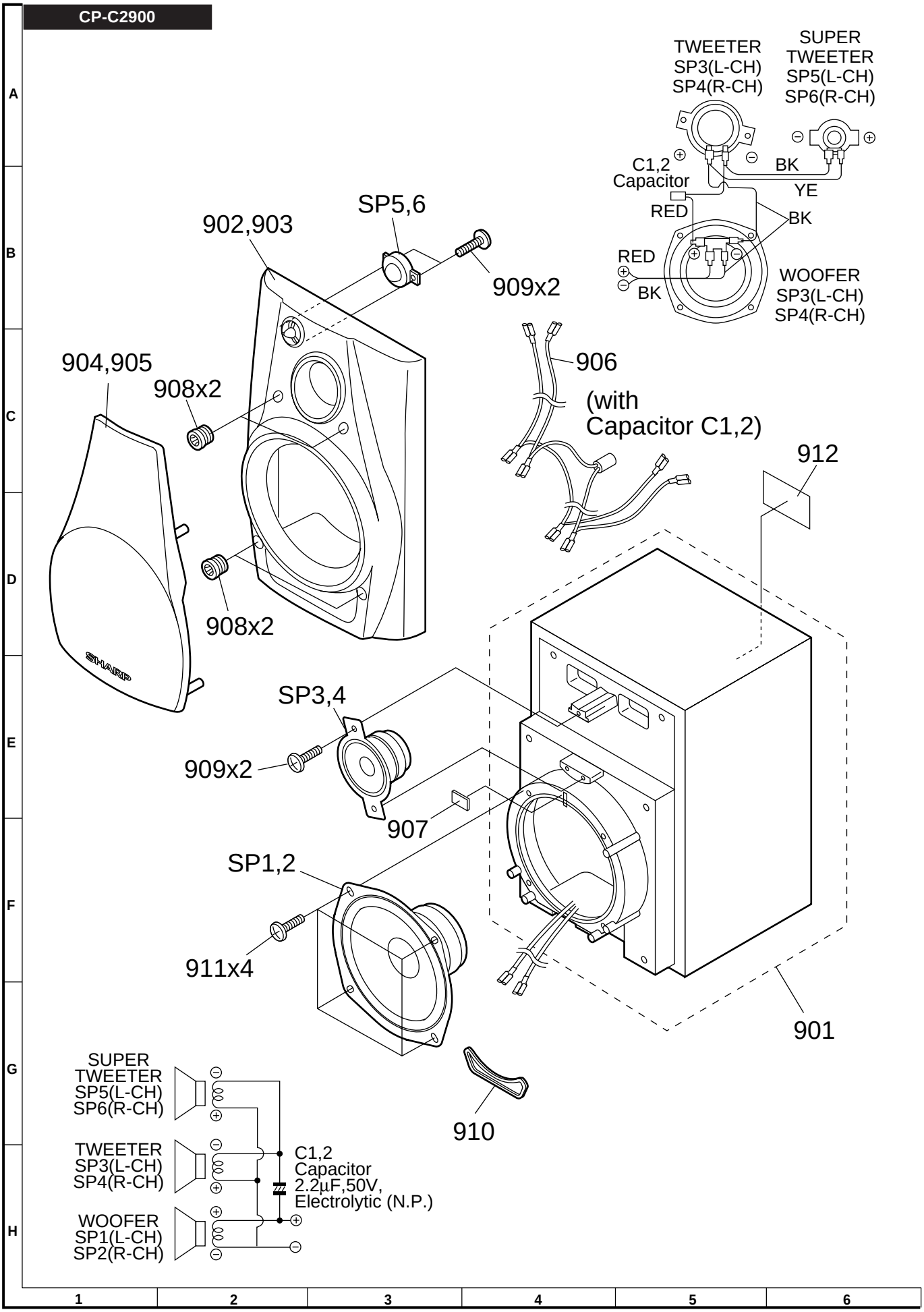


Figure 12 SPEAKER EXPLODED VIEW (2/3)

GBOXS0021AWM1 (CD-C622 ONLY)

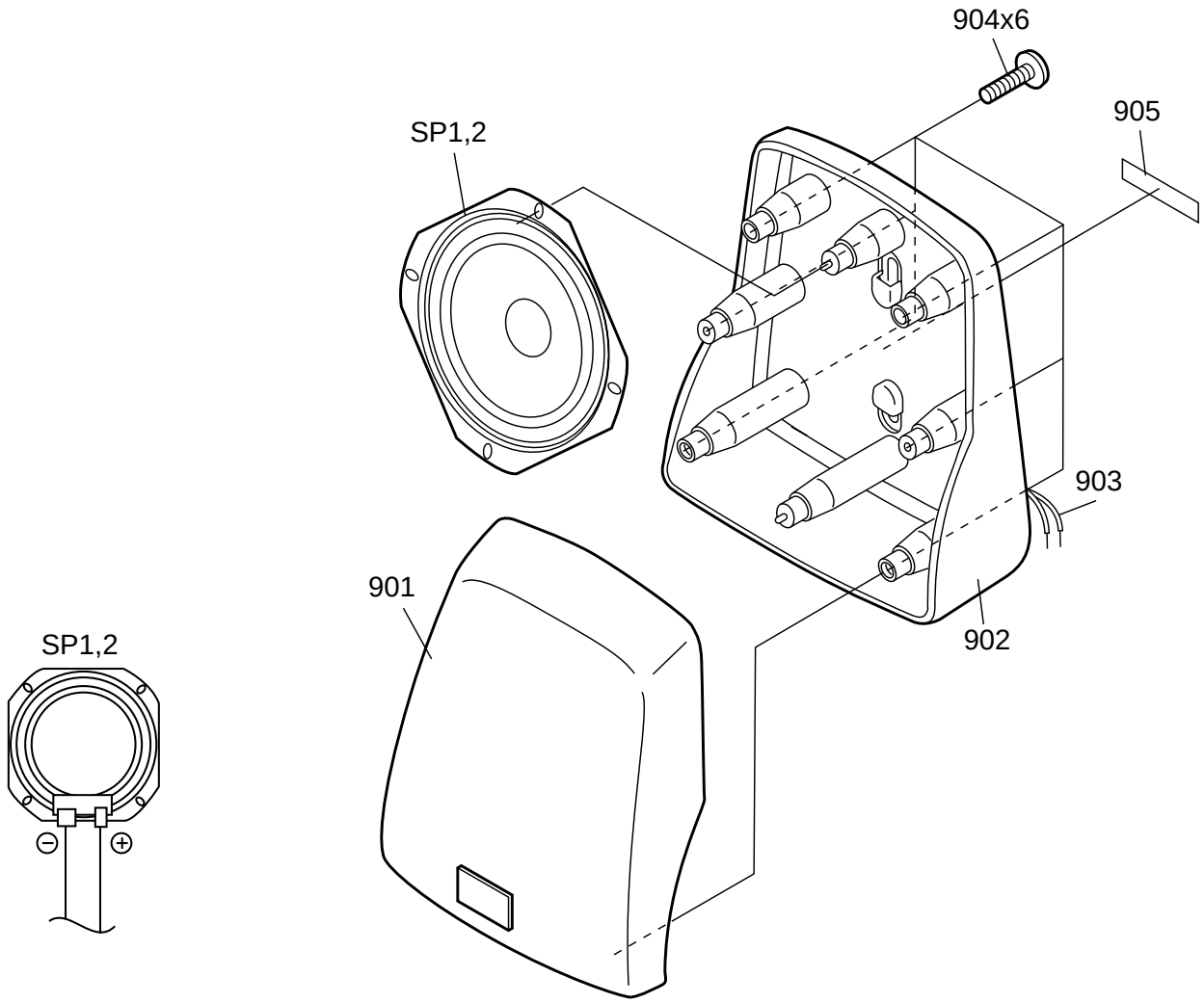


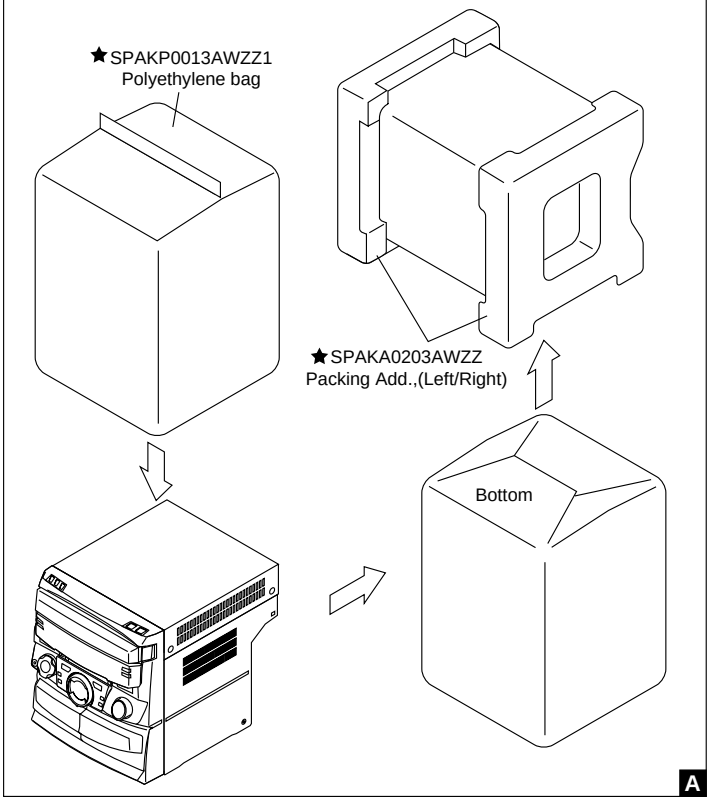
Figure 13 SPEAKER EXPLODED VIEW (3/3)

PACKING OFF THE SET (For U.S.A. Only)

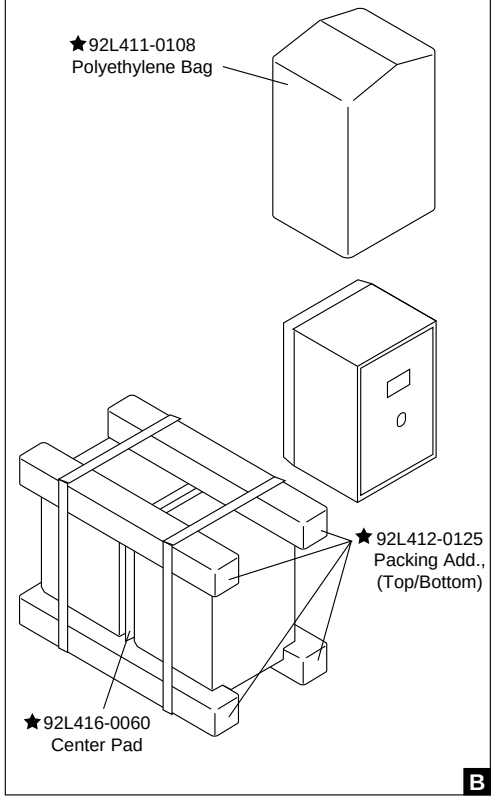
CP-C622

Setting position of switches and knobs	
Tape Mechanism	STOP

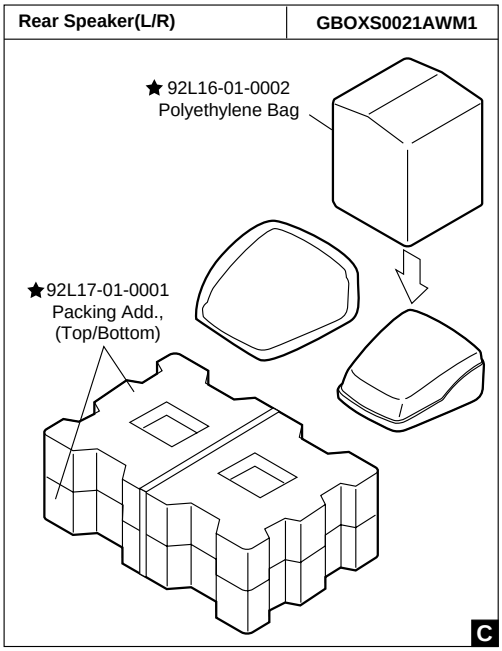
UNIT

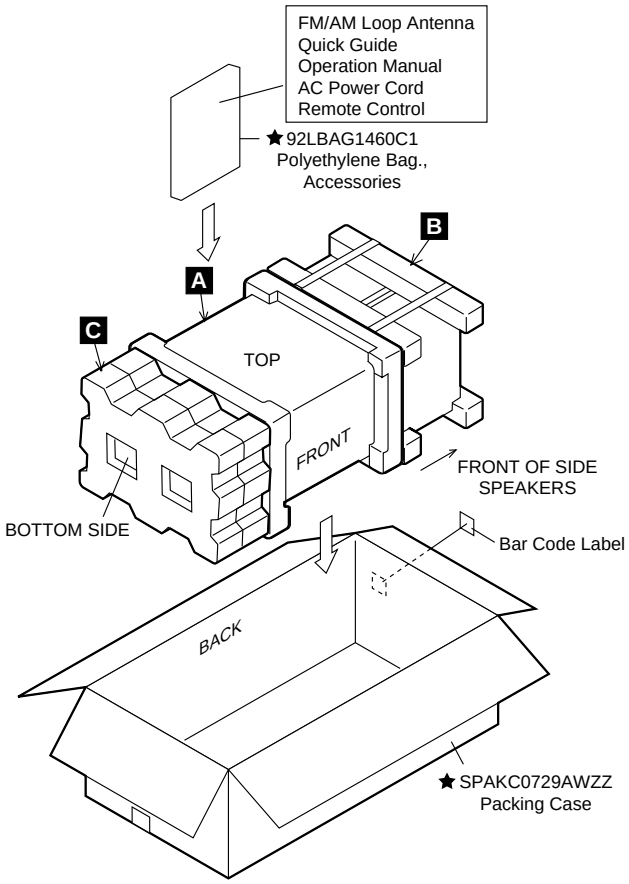


Front Speaker(L/R) **CP-C622**



Rear Speaker(L/R) **GBOXS0021AWM1**



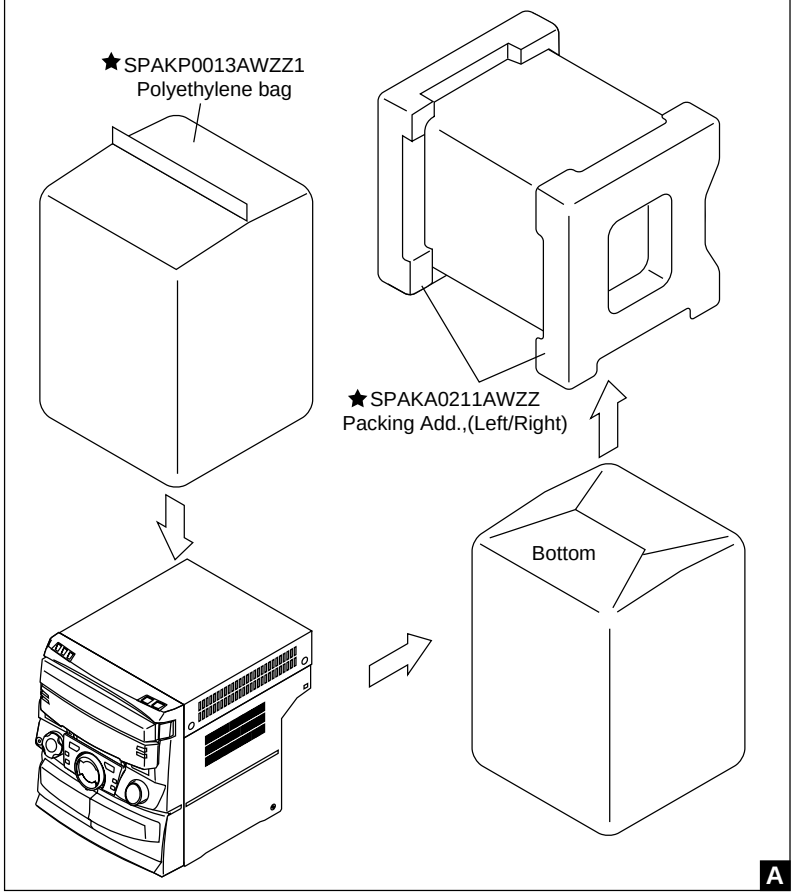


★Not Replacement Item

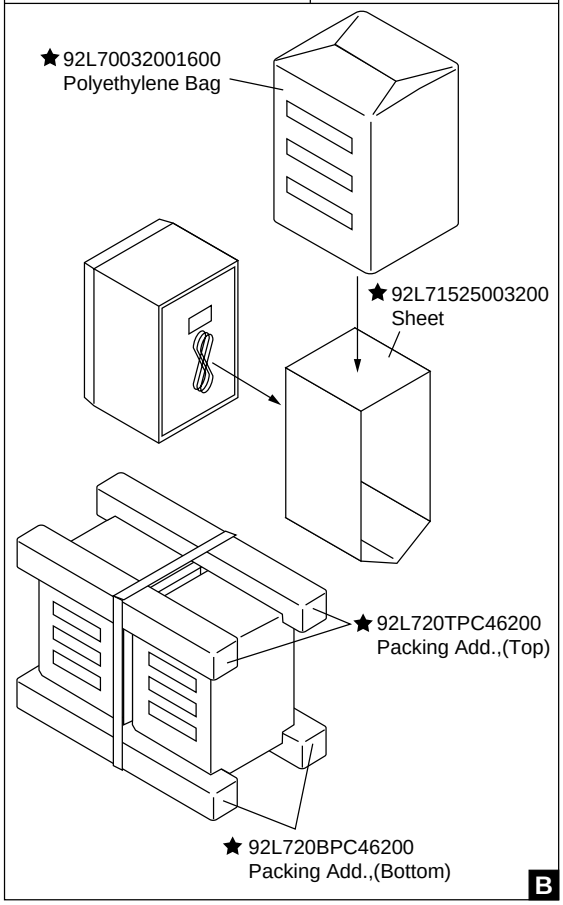
CP-C2900

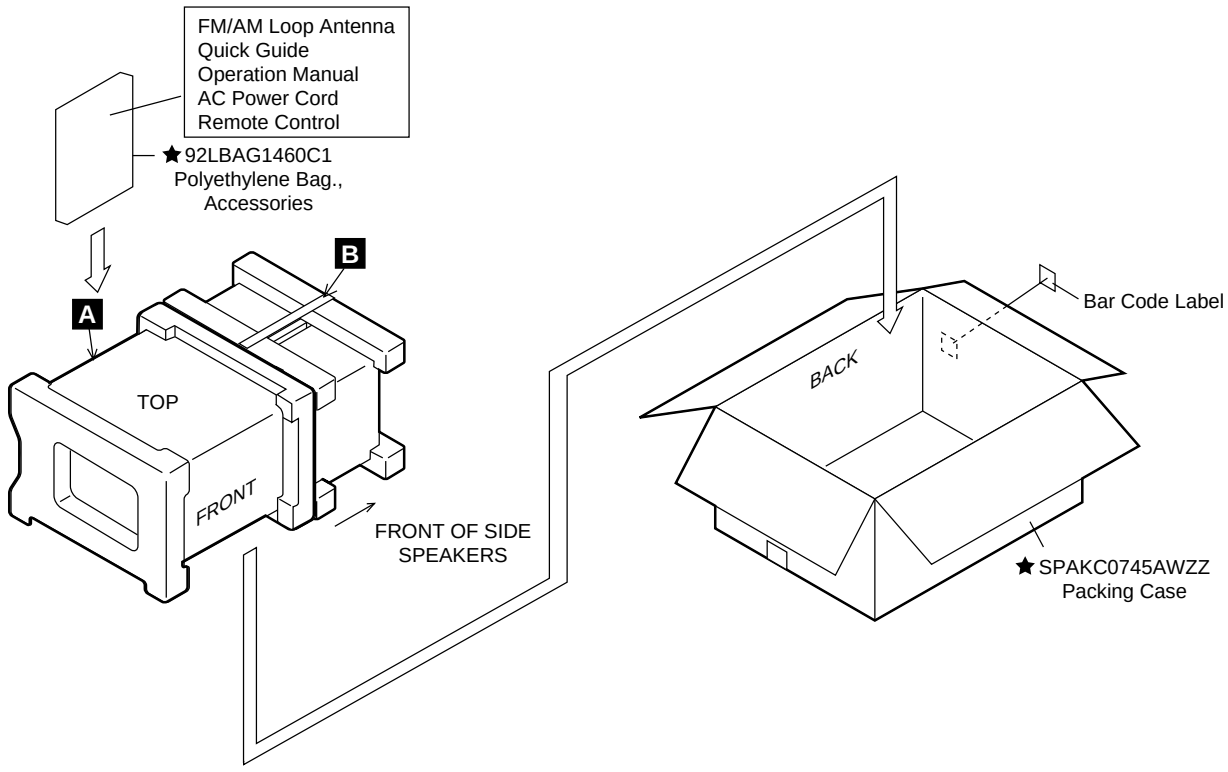
Setting position of switches and knobs	
Tape Mechanism	STOP

UNIT



Front Speaker (L/R) | **CP-C2900**





★Not Replacement Item

— M E M O —

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